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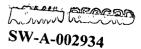
A DATA PRESENTATION OF ROCKY FLATS PLANT SURFACE WATER RADIOCHEMICAL AND BIOCHEMICAL CONSTITUENTS



PRESENTED TO LOS ALAMOS NATIONAL LABORATORIES (LANL)

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LIST OF FIGURES

Figure 1	Pond Location Map
Figure 2	Pond Capacities
Figure 3	Organic Chemical Standards
Figure 4	Radionuclide Standards
Figure 5	Average Biochemical Concentrations
Figure 6	Average Radiochemical Concentrations

The Rocky Flats Plant is a government owned and contractor-operated facility. It is part of a nationwide nuclear weapons research, development and production complex administered by the Albuquerque Operations Office of the U.S. Department of Energy (DOE). The prime operating contractor for the Rocky Flats Plant is EG&G Rocky Flats, Inc.

The Rocky Flats Plant is located approximately 16 miles from downtown Denver in northern Jefferson County, Colorado, and is almost equidistant from the cities of Boulder, Golden and Arvada.

The plant is a key DOE facility that produces components for nuclear weapons; therefore its product is directly related to national defense. The plant is involved in fabricating components from plutonium, uranium, beryllium, and stainless steel. Production activities include metal fabrication and assembly, chemical recovery and purification of process-produced transuranic radionuclides, and related quality controlled functions. Research and engineering programs supporting these activities involve chemistry, physics, materials technology, ecology, nuclear safety, and mechanical engineering.

The climate at Rocky Flats is characterized by dry, cool winters with some snow cover and warm summers. There is considerable clear-sky sunshine, and both the average precipitation and relative humidity are low. The elevation of the plant and the major topographical features of the area significantly influence the climate and meteorological dispersion characteristics of the site. Winds at Rocky Flats, although variable, are predominantly northwesterly, with stronger winds occurring during the winter.

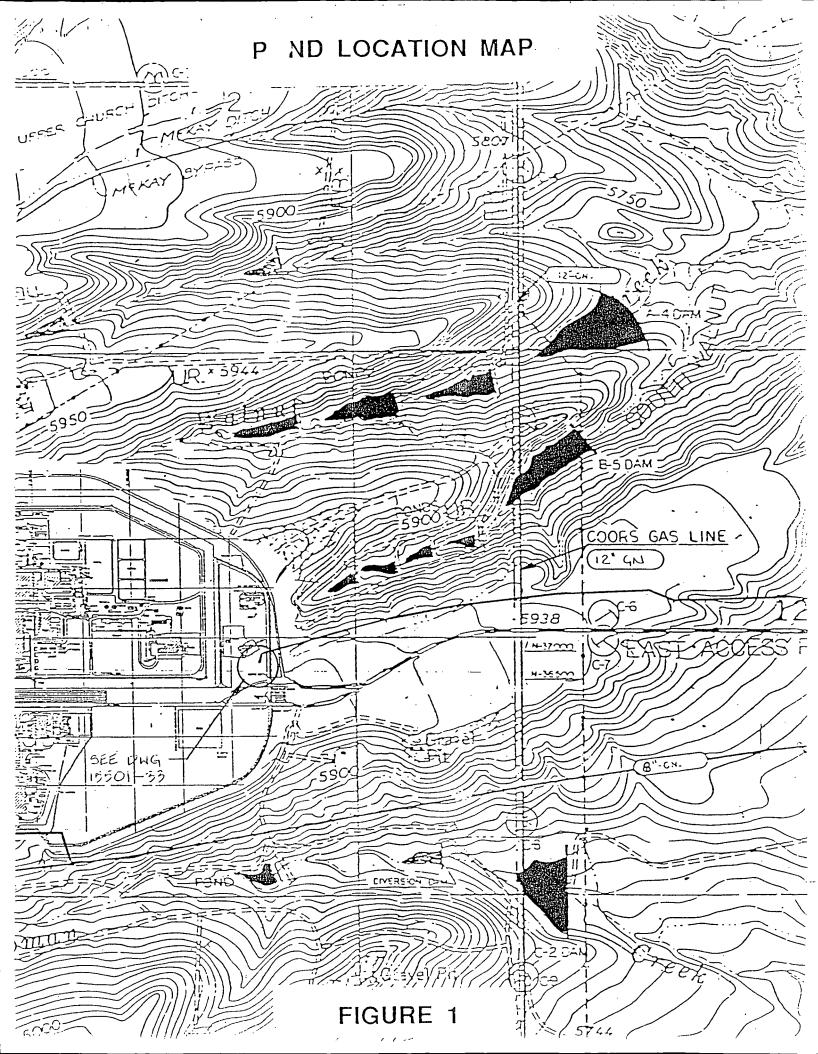
Raw water is purchased from the Denver Water Board and is drawn from Ralston Reservoir and the South Boulder Diversion Canal. The Rocky Flats Plant used approximately 134 million gallons of water during 1988. Sanitary waste is processed by the sanitary wastewater treatment plant, and is isolated from process waste throughout the plant. Conditioning chemicals are added to improve flocculation and filtration of suspended solids. The treatment plant is of the activated sludge type and has three stages of treatment. It has a design capacity of 500,000 gallons per day. Present daily flows usually vary between 200,000 and 300,000 gallons. One of two 60,000 gallon preaeration holding tanks, located upstream from the sewage plant, serves as a surge basin to smooth out peak flows. A second holding tank provides storage capacity for sanitary wastes should emergency retention be required. Liquid effluents from the sanitary waste treatment plant are released to holding ponds for subsequent onsite dispersion or offsite discharge to Walnut Creek. The plant is investigating the options related to a zero discharge goal with respect to downstream discharges. All surface water discharges are conducted in accordance with the National Pollution Discharge Elimination System (NPDES) Permit. Residual solids from the sanitary waste treatment plant are concentrated, dried, packaged, and shipped to a DOE-approved waste facility.

In 1988, solid wastes that had no radioactive or hazardous chemical constituents were transferred to an onsite sanitary landfill for disposal. This landfill was designed and constructed in 1974 with an impervious clay seal layer, a ground water intercept system, and surface water diversion ditches to isolate the landfill from the ground environment. Routine waste materials are checked daily for radioactivity at the landfill site before final burial. In addition, routine waste materials originating from buildings in which radioactive materials are handled are monitored prior to leaving the building to ensure that they are free from radioactive contamination. The disposal of nonroutine or special non-radioactive waste materials is administratively controlled.

Ground water and surface water flow in and around the sanitary landfill is controlled by interceptor ditches and by french drains. The ditches divert all upgradient surface waters around the landfill. The drains collect groundwater from the perimeter of the landfill and divert it around the landfill. A holding pond collects surface and subsurface drainage from the landfill. Water samples from this holding pond, the drains, and from twenty-one (as of 1988) Resource Conservation and Recovery Act (RCRA) quality ground water monitoring wells in the vicinity are collected routinely and are analyzed for a series of parameters including radioactivity.

Surface water runoff from the plant generally is from west to east. Runoff is carried from the plant by three major drainage basins that are tributaries to Walnut Creek on the north and to Woman Creek on the south (See Figure 1). The south fork of Walnut Creek receives most of the stormwater runoff from areas surrounding plant buildings. The confluence of the north and south forks of Walnut Creek is 0.7 miles west of the east perimeter of the plant boundary. Great Western Reservoir, a water supply for the City of Broomfield, is 1 mile east of this confluence. Woman Creek flows east from Rocky Flats into Standley Lake, a water supply for the City of Westminster and for portions of the cities of Northglenn and Thornton. Ponds on the north fork of Walnut Creek are designated A-1 through A-4. Ponds on the south fork are designated B-1 through B-5. These A- and B-series ponds receive precipitation runoff and/or treated sanitary wastewater. Pond C-1 is located on the Woman Creek watercourse and receives only undisturbed natural flows. Pond C-2, located near the Woman Creek watercourse, receives surface runoff water from an interceptor ditch parallel to the south side of the plant production areas (See Figure 2).

Ponds A-1 and A-2 are isolated by valves from North Walnut Creek. In the past, these ponds have been used for storage and evaporation of laundry water. This practice was discontinued in 1980. These ponds currently are maintained in a state of readiness for control of possible chemical spills into the North Walnut Creek drainage basin. Disposition of Pond A-1 and A-2 runoff is through natural evaporation, which is enhanced by spray irrigation (spraying water through fog nozzles over the surface of the ponds). Excess water that does not evaporate is then recollected by the ponds.



POND CAPACITIES

ESTIMATED COLLECTION CAPACITIES OF RFP PONDS AND OTHER CATCH VOLUMES

	APPROXIMATE
<u>IDENTITY</u>	CAPACITY (GAL)
Landfill	3,552,000
Pond A-1	1,660,000
Pond A-2	6,700,000
Pond A-3	14,110,000
Pond A-4	30,900,000
Pond B-1	795,000
Pond B-2	1,930,000
Pond B-3	620,000
Pond B-4	600,000
Pond B-5	23,140,000
Pond C-1	750,000
Pond C-2	22,490,000

South Walnut Creek receives surface water runoff from the central portion of the plant. This water is diverted through a culvert system to Pond B-4 and then to flood control Pond B-5 where the water is impounded for analysis prior to controlled offsite discharge.

Surface water runoff from the south side of th plant os collected in an interceptor ditch and flows to surface water control Pond C-2, where the water is impounded and analyzed before discharge. Woman Creek, also in the south drainage, is isolated from the diversion system. Pond C-1 is used as the monitoring point for Woman Creek.

Discharges from the Rocky Flats Plant are monitored for compliance with appropriate Colorado Department of Health Standards and EPA (NPDES) permit limitations (See Figures 3 and 4). Annual average concentrations of chemical and biological constituents of liquid effluent samples collected from Ponds A-3, A-4, B-5 and C-2 during 1988 are presented in Figure 5. Radiochemical levels are presented in Figure 6. The data are indicative of overall water quality for these ponds.

Prior to discharge from Pond A-4, B-5 and C-2, water is sampled and analyzed for gross alpha, gross beta, tritium, gamma activity, pH, nitrate as Nitrogen (N), and nonvolatile suspended solids. Water is not released if the plant action level for any parameter is exceeded. Ingeneral, these action levels are based on EPA and CDH drinking water standards.

ORGANIC CHEMICAL STANDARDS

PARAMETER	STANDARD (ug/l)
Acrylonitrile	0.058
Aldrin	0.000074
Atrazine	3.0
Benzidine	0.00012
Chlordane	0.00046
Chloroform	0.19
Chloroethyl Ether	0.000037
Dichlorodiphenyltrichloroethane (DDT)	0.000024
Dichlorobenzidine	0.01
Dieldrin	0.000071
Dioxin	0.00000013
Halomethanes	0.19
Heptachlor	0.00028
Hexachloroethane	1.9
Hexachlorobenzene	0.00072
Hexachlorobutadiene	0.45
Hexachlorocyclohexa ne	0.0092
Nitrosodibutylamine	0.0064
Nitrosodimethylamine	0.0014
Nitrosodiphenylamine	4.9
Nitrosopyrrolidine	0.016
Polychlorinatedbiphenyls	0.000079
Simazine	4.0
Tetrachlorethane	0.17
Tetrachloroethylene	0.8
Tetrachlorophenol	1.2

RADIONUCLIDE STANDARDS

PARAMETER	STANDLEY LAKE	GREAT WESTERN RESERVOIR	WOMAN CRÉEK	WALNUT CREEK
Gross Alpha	6	5	7	11
Gross Beta	9		5	19
Plutonium	0.03	0.03	0.05	0.05
Americium	0.03	0.03	0.05	0.05
Tritium	500	500	500	500
Uranium	3	4	5	10

AVERAGE BIOCHEMICAL CONCENTRATIONS

Parameters	Number of Analyses	C minimumb	c maximumb	c meanb
Discharge 001 ^c		_		
pH,SU	43	_ 6.8	8.1	•
Nitrate as N, mg/l	43	1.17	4.7	1.6
Total Suspended Solids, mg/l	43	0	14	3.9
Total Residual Chlorine, mg/l	43	0.09	0.2	0.1
Total Chromium, mg/l	10	<0.05	<0.05	<0.05
Total Phosphorus, mg/l	16	0.5	1.0	0.6
Fecal Coliform, #/100 ml	43	3	312	71
Biochemical Oxygen Demand	15	3	>40	>15.5
(BOD ₅), mg/l				
Discharge 002 ^c				
pH, SU	14	6.9	8.1	-
Nitrate as N, mg/l	14	0.8	4.8	2.3
Discharge 003 ^c			. Con Abo December	- Osmanic Di
During 1988, there we	re no discharge	es to offsite water	s from the Hevers	e Osmosis Pi
•			•	

ot Plant.

Discharge 004c

During 1988, there were no discharges to offsite waters from the Reverse Osmosis Pilot Plant.

During 1500, more non				
Discharge 005 ^c	•			
pH, SU	20	5.2	8.0	
Nitrate as N, mg/l	20	0.04	3.01	1.81
Nonvolatile			_ ,	4.05
Suspended Solids, mg/l	20	0.0	5 .	1.05
Discharge 006 ^c				
pH. SU	38	6.8	8.3	<u>.</u>
Nitrate as N, mg/l	38	0.05	2.67	1.25
Nonvolatile				
Suspended Solids, mg/l	36	0.0	7.0.	1.2
Discharge 007°				
pH, SU	4	7.2	8.3	· -
Nitrate as N, mg/l	4	<0.02	0.56	0.19
Nonvolatile				
Suspended Solids, mg/l	4	0.0	2.0	1.0
Casponasa Conast ma.				

a. Examples of NPDES Permit limitations are presented in Table A-2.

C minimum = minimum measured concentration; C maximum = maximum measured concentration; C mean = mean measured concentration.

c. The Environmental Protection Agency NPDES discharge permit defines the discharge locations as follows:

^{001 -} Pond B-3

^{002 -} Pond A-3

^{003 -} Reverse Osmosis Pilot Plant

^{004 -} Reverse Osmosis Plant

^{005 -} Pond A-4

^{006 -} Pond B-5

^{007 -} Pond C-2

AVERAGE RADIOCHEMICAL CONCENTRATIONS

									•
	Number of	C		C maxim		C		_	Percent of
Location	Analyses	^C minimur	n ^a	^C maxim	num ^a	c me	ean	a	DCG
						· · · · · ·			
		Plut	onium C	Concentration	on (X 10 ⁻⁹	μCi/ml) ^b)		
Pond A-4	5	-0.003 ± 0	0.030°	0.091 ±	0.035 ^c	0.02	±	0.03 ^d	0.08
Pond B-5	15	-0.017 ± 0	0.054	0.08 ±	0.04	0.02			0.07
Pond C-1	32	-0.03 ± 0	0.02	0.06 ±	0.03	0.01	±	0.02	0.03
Pond C-2	2	0.09 ± 0	0.03	0.103 ±	0.038	0.10	±	0.03	0.33
Walnut Creek And	og er græfig		•						Section 1
at Indiana Street	26	-0.016 ± (0.025	$0.034 \pm$	0.014	0.01	±	0.02	0.03
		Ura	nium Co	oncentratio	n (X 10 ⁻⁹ բ	ıCi/ml) ^e			
Pond A-4	5 ,	2.5 ±	0.2°	11.2 ±	1.2 ^c	6.5		0.7 ^d	1.3
Pond B-5	15	2.1 ±	0.2	8.0 ±	8.0	3.8	±	0.4	0.8
Pond C-1	32	-0.008 ±	0.2		0.3	0.9	±	0.2	0.2
Pond C-2 Walnut Creek	2	3.5 ±	0.3	4.5 ±	0.3	4.0	±	0.3	8.0
at Indiana Street	26	0.8 ±	0.1	12.1 ±	1.0	4.8	+	0.5	1.0
	20	0.0 1	•				_	0.0	
		Am	ericium	Concentrat	tion (X 10	⁹ μCi/ml)	f —		
Pond A-4	5	0.013 +	0.027 ^c	0.03 +	0.02 ^c	0.02		0.02 ^d	0.07
Pond B-5	_	_		_		0.02	_	0.02	0.07
Pond C-1	15	-	0.02	0.04 ±			±		
Pond C-1	32		0.023	0.060 ±		0.01	±		0.02
Walnut Creek	2	0.02 ±	0.02	0.07 ±	0.03	0.05	±	0.03	0.17
at Indiana Street	26	-0.01 ±	0.02	0.067 ±	0.032	0.01	±	0.02	0.03
•		_							

a. C minimum = minimum measured concentration; C maximum = maximum measured concentration; C mean = mean measured concentration

b. Radiochemically determined as plutonium -239 and -240. The interim standard calculated Derived Concentration Guide (DCG) for plutonium in water available to members of the public is 30 X 10⁻⁹ μCi/ml. (See Appendix A.)

c. Calculated as 1.96 standard deviations of the individual measurement.

d. Calculated as 1.96 standard deviatons of the mean.

e. Radiochemically determined as uranium -233, -234, and -238. The interim standard calculated Derived Concentration Guide (DCG) for uranium in water available to members of the public is 500 X 10⁻⁹ μCi/ml. (See Appendix A.)

f. Radiochemically determined as americium -241. The interim standard calculated Derived Concentration Guide (DCG) for americium in water available to members of the public is 30 X 10⁻⁹ μCi/ml. (See Appendix A.)

RADIOCHEMICAL DATA FOR RFP SURFACE WATER

OUTLINE OF RADIOCHEMICAL DATA

The following is a compilation of radiochemical data for Rocky Flats Plant (RFP) surface water detention ponds and other water sources. The data covers mostly 1988, 1989 and 1990. The data includes onsite as well as offsite sampling. Reference is made in several of the tables to the National Pollutant Discharge Ellimination System (NPDES) Permit. This is the permit that is issued to RFP which allows offsite water discharges to occur, provided all applicable water quality standards are met. At the present time, RFP is not discharging water.

TABLE 1

This table summarizes the minimum, maximum and average concentrations of radiochemical concentrations in RFP surface water monitoring sites. Note the location entitled "Walnut Creek at Indiana Street". This is an offsite monitoring location that RFP maintains at the point of intersection between Walnut Creek and Indiana Street.

TABLE 2

This table is a continuation of TABLE 1.

TABLE 3

This table summarizes the radiochemical concentrations in the raw water supply ralated to different isotopes.

TABLE 4

Summarizes the radiochemical concentrations in water supplies near RFP.

The remainder of this section is simply a listing of the raw sampling data which ER/CWA has compiled from 1988 through 1990.

ANNUAL AVERAGE CONCENTRATIONS OF RADIOCHEMICAL CONSTITUENTS IN RFP WATER (1989)

Location	Number of Analyses	C <u>mini</u>	murr	ja, e	C <u>maximum</u> a, e	C meana f	Percent of DCG (Cmean)
			Plut	tonium	Concentration (x	10 ⁻⁹ μCi/ml) ^b	
Pond A-4	17	-0.017	<u>+</u> (0.027	0.053 ± 0.046	0.008 ± 0.016	0.03
Pond B-5	18	-0.018	± (0.027	0.354 ± 0.082	0.003 ± 0.010	0.01
Pond C-1	37	-0.021	± (0.030	0.070 ± 0.040	0.011 ± 0.006	0.04
Pond C-2 Walnut Creek	4	-0.007	±	0.028	0.046 ± 0.037	0.019 ± 0.018	0.06
at Indiana Street	25	-0.015	± '	0.028	0.087 ± 0.032	0.019 ± 0.005	0.06
			Ura	nlum C	oncentration (x	10-9 μCl/ml)c	
Pond A-4	17	4.48	±	0.31	8.78 ± 0.48	6.41 ± 0.12	1.28
Pand B-5	18	0.44	±	0.17	5.18 ± 0.36	2.58 ± 0.07	0.52
Pand C-1	37	0.20	±	0.17	5.00 ± 0.42	1.55 ± 0.32	0.31
Pond C-2 Walnut Creek	4	1.08	±	0.14	2.78 ± 0.25	1.54 ± 0.09	0.31
at Indiana Street	25	1.55	±	0.16	8.82 ± 0.50	4.62 ± 0.08	0.92
			Am	ericium	Concentration (x 10 ⁻⁹ μCi/ml) ^d	
Pond A-4	17	-0.026	±	0.030	0.109 ± 0.037	0.006 ± 0.008	0.02
Pond B-5	. 18	-0.020	±	0.027	0.064 ± 0.035	0.013 ± 0.008	0.04
Pond C-1	37 .	-0.003	±	0.024	0.075 ± 0.014	0.009 ± 0.006	0.03
Pond C-2 Walnut Creek	4	-0.009	±	0.024	0.044 ± 0.034	0.003 ± 0.016	0.01
at Indiana Street	25	-0.021	±	0.027	0.121 ± 0.038	0.012± 0.004	0.04

a. C minimum = minimum measured concentration; C maximum = maximum measured concentration. For Pond C-1, C mean refers to calculated mean concentration. Due to intermitant flow meter operations at Pond C-1 during 1989, a volume weighted average was not possible to calculate. For Ponds A-4, B-5, C-2 and flow at Walnut Creek at Indiana Street, C mean refers to volume weighted averages.

b. Radiochemically determined as plutonium-239 and -240. The interim standard calculated Derived Concentration Guide (DCG) for plutonium in water available to members of the public is 30 X 10⁻⁹ μCi/ml (Appendix D).

c. Radiochemically determined as uranium-233, -234, and -238. The interim standard calculated DCG for uranium in water available to members of the public is 500 X 10⁻⁹ µCi/ml (Appendix D).

d. Radiochemically determined as americium-241. The interim standard calculated DCG for americium in water available to members of the public is 30 X 10-9 μCi/ml (Appendix D).

e. Calculated as 1.96 standard deviatons of the mean.

f. Calculated as 1.96 standard deviations of the individual measurement.

ANNUAL AVERAGE CONCENTRATIONS OF TRITIUM IN RFP WATER (1989)

Learning	Number of	Tritium (C minimum ^{a, c}	Concentration (x 10-9 Cmaximuma c	⁹ μCi/ml) ^b C meana.d	Percent of . DCG (Cmean)
Location	Analyses	- Itimindiff	- Illaxillidiii-	"III MAIN	TV71(-i.i.ean)
Pond A-4	55	-470 ± 400	140 ± 110	-20 ± 50	0.000
Pond B-5	75	-590 ± 500	210 ± 330	-50 ± 40	0.000
Pond C-1	37	-440 ± 320	400 ± 390	30 ± 50	0.002
Pond C-2	19	-390 ± 400	260 ± 420	10 ± 60	0.0005
Walnut Creek at Indiana Street	75	-440 ± 420	500 ± 510	0 ± 60	0.000

a. C minimum = minimum measured concentration; C maximum = maximum measured concentration. For Pond C-1, C mean refers to calculated mean concentration. Due to intermitant flow meter operations at Pond C-1 during 1989, a volume weighted average was not possible to calculate. For Ponds A-4, B-5, C-2 and flow at Walnut Creek at Indiana Street.

C mean refers to volume weighted averages.

b. The interim standard calculated Derived Concentration Guide (DCG) for tritium in water available to the members of the public is 2,000,000 x 10-9 μCi/ml (Appendix D).

c. Calculated as 1.96 standard deviations of the individual measurement.

d. Calculated as 1.96 standard deviations of the mean.

RADIOCHEMICAL CONCENTRATIONS IN RFP RAW WATER SUPPLY (1989)

Number of Analyses	C minimuma g	C maximum ^{a.} g	C meana, h	Percent of DCG (C mean)
	Plutonium	Concentration (x 10	-9 μCl/ml)b	
12	-0.021 ± 0.030	0.065 ± 0.034	0.007 ± 0.013	0.023
	Uranium Co	ncentration (x 10 ⁻⁹	μCi/mi)c	
12	0.31 ± 0.08	2.64 ± 0.18	0.99 ± 0.41	3.3
	Americium	Concentration (x 1	0-9 µCI/mI) ^d	• '
12	-0.026 ± 0.027	0.029 ± 0.026	0.000± 0.008	0.0
	Tritlum Co	encentration (x 10 ⁻⁹	μCi/mi)e	•
12	-290 ± 290	200 ± 440	30 ± 90	0.002
	12 12	Analyses C minimuma g Plutonium 12 -0.021 ± 0.030 Uranium Co 12 0.31 ± 0.08 Americium 12 -0.026 ± 0.027 Tritlum Co	Analyses C minimuma. g C maximuma. g Plutonium Concentration (x 10) 12 -0.021 \pm 0.030 0.065 \pm 0.034 Uranium Concentration (x 10-9) 12 0.31 \pm 0.08 2.64 \pm 0.18 Americium Concentration (x 10) 12 -0.026 \pm 0.027 0.029 \pm 0.026 Tritium Concentration (x 10-9)	Analyses C minimuma g C maximuma g C meana h Plutonium Concentration (x $10^{-9} \mu \text{Cl/mi}$)b 12

a. C minimum=minimum measured concentration; C maximum-maximum measured concentration; C mean=mean calculated concentration.

B. Radiochemically determined as plutonium-239 and -240. The interim standard calculated Derived Concentration Guide (DCG) for plutonium in water available to members of the public is 30x10⁻⁹ μCi/ml (Appendix D).

c. Radiochemically determined as uranium-233, -234 and -238. The interim standard calculated DCG for uranium in water available to members of the public is 500x10⁻⁹ μCi/mi (Appendix D).

d. Radiochemically determined as americium-241. The interim standard calculated DCG for americium in water available to members of the public is 30x10⁻⁹ µCi/ml (Appendix D).

e. The interim standard calculated DCG for tritium in water available to members of the public is 2,000,000x10-9 μCi/ml (Appendix D).

f. Source of Raw Water: Ralston Reservoir and South Boulder Diversion Canal.

g. Calculated as 1.96 standard deviations of the individual measurement.

h. Calculated as 1.96 standard deviations of the mean.

RADIOCHEMICAL CONCENTRATIONS IN WATER SUPPLIES NEAR ROCKY FLATS (1989)

Number of Coation Analyses Cominimuma.co Comaximuma.co Comaximuma	***		•			
Reservoir Boulder 1	Location	Number of Analyses	C minimuma c	C maximuma, c	C meana d	Percent of
Boulder						
Boulder	Danier II	•	A a mladeesea	Consended by 4	0-9 01/11h	•
Dillion 1 -0.012 ± 0.028 -0.012 ± 0.028 -0.012 ± 0.029 0.000 Great Western 12 -0.003 ± 0.006 0.025 ± 0.012 0.052 ± 0.005 0.017 Ralston 1 -0.003 ± 0.003 0.023 ± 0.032 0.023 ± 0.032 0.076 South Boulder Diversion Canal 1 -0.019 ± 0.027 -0.019 ± 0.027 -0.019 ± 0.027 -0.019 ± 0.027 -0.019 ± 0.027 -0.019 ± 0.027 -0.019 ± 0.027 -0.019 ± 0.027 -0.009 ± 0.008 0.005 ± 0.008 0.005 ± 0.005 0.001 Drinking Water Arvada 4 -0.002 ± 0.032 0.041 ± 0.031 0.021 ± 0.018 0.070 Boulder 12 -0.013 ± 0.031 0.015 ± 0.029 0.003 ± 0.004 0.010 Broomfield 12 -0.013 ± 0.031 0.015 ± 0.029 0.024 ± 0.033 0.080 Golden 4 -0.015 ± 0.031 0.025 ± 0.037 0.024 ± 0.033 0.080 Golden 4 -0.017 ± 0.029 0.025 ± 0.033 0.004 ± 0.028 0.013 Lafayette 4 -0.017 ± 0.029 <td></td> <td>4</td> <td></td> <td></td> <td></td> <td></td>		4				
Great Western 12						1
Ralston 1 0.023 ± 0.032 0.023 ± 0.032 0.023 ± 0.032 0.076 South Boulder Diversion Canal 1 -0.019 ± 0.027 -0.019 ± 0.027 -0.019 ± 0.027 0.000 Standley 12 -0.005 ± 0.008 0.026 ± 0.008 0.005 ± 0.005 0.017 Drinking Water Arvada 4 -0.002 ± 0.032 0.041 ± 0.031 0.021 ± 0.018 0.070 Boulder 12 -0.013 ± 0.031 0.015 ± 0.029 0.003 ± 0.004 0.010 Broomfield 12 -0.013 ± 0.031 0.015 ± 0.029 0.003 ± 0.004 0.010 Denver 4 -0.011 ± 0.024 0.053 ± 0.037 0.024 ± 0.033 0.080 Golden 4 -0.025 ± 0.031 0.039 ± 0.030 0.004 ± 0.028 0.013 Lafayette 4 -0.017 ± 0.029 0.026 ± 0.028 0.004 ± 0.028 0.013 Lafayette 4 -0.013 ± 0.025 0.033 ± 0.034 0.007 ± 0.020 0.023 Thomton 4 -0.015 ± 0.007 0.115 ± 0.044 0.0		•				
South Boulder Diversion Canal 1 -0.019 ± 0.027 ± 0.019 ± 0.027 ± 0.008 -0.019 ± 0.027 ± 0.008 -0.005 ± 0.008 0.005 ± 0.005 0.017 Drinking Water Arvada 4 -0.002 ± 0.032 ± 0.031 ± 0.031 0.021 ± 0.018 ± 0.018 0.070 Boulder 12 -0.013 ± 0.031 ± 0.031 ± 0.029 ± 0.003 ± 0.004 0.010 Broamfield 12 -0.010 ± 0.031 ± 0.021 ± 0.007 ± 0.003 ± 0.004 0.010 Denver 4 -0.011 ± 0.024 ± 0.053 ± 0.037 ± 0.024 ± 0.033 ± 0.003 0.004 ± 0.028 ± 0.013 Golden 4 -0.017 ± 0.029 ± 0.026 ± 0.028 ± 0.004 ± 0.028 ± 0.013 0.013 ± 0.025 ± 0.031 ± 0.029 ± 0.026 ± 0.028 ± 0.004 ± 0.028 ± 0.013 Latysette 4 -0.017 ± 0.029 ± 0.026 ± 0.028 ± 0.004 ± 0.013 ± 0.023 Thomton 4 -0.013 ± 0.025 ± 0.033 ± 0.034 ± 0.007 ± 0.020 Westminster 12 -0.005 ± 0.007 ± 0.115 ± 0.044 ± 0.006 ± 0.011 Westminster 12 -0.005 ± 0.007 ± 0.115 ± 0.044 ± 0.006 ± 0.011 Boulder 1 -10 ± 290 ± 0.028 ± 0.004 ± 0.006 ± 0.001 Great Western 51 -40 ± 400 ± 290 ± 250 ± 0.000 South Boulder 1 40 ± 290 ± 290 ±			_			-
Diversion Canal 1		į.	0.023 ± 0.032	0.023 ± 0.032	0.023 ± 0.032	0.076
Standley 12 -0.005 ± 0.008 0.026 ± 0.008 0.005 ± 0.005 0.017 Drinking Water Arvada 4 -0.002 ± 0.032 0.041 ± 0.031 0.021 ± 0.018 0.070 Boulder 12 -0.013 ± 0.031 0.015 ± 0.029 0.003 ± 0.004 0.010 Broomfield 12 -0.010 ± 0.031 0.021 ± 0.007 0.003 ± 0.004 0.010 Broomfield 12 -0.010 ± 0.031 0.021 ± 0.007 0.003 ± 0.004 0.010 Denver 4 -0.011 ± 0.024 0.053 ± 0.037 0.024 ± 0.033 0.080 Golden 4 -0.025 ± 0.031 0.039 ± 0.030 0.004 ± 0.028 0.013 Lafayette 4 -0.017 ± 0.029 0.026 ± 0.028 0.008 ± 0.019 0.026 Louisville 4 -0.015 ± 0.025 0.033 ± 0.034 0.007 ± 0.020 0.023 Thomton 4 -0.015 ± 0.028 0.016 ± 0.028 0.004 ± 0.013 0.013 Westminster 12 -10 ± 290 -10 ± 290 -10 ± 290 0.006 ± 0.011 0.020			0.010 / 0.027	0.010 - 0.027	0.010 + 0.027	0.000
Drinking Water Arvada 4 -0.002 ± 0.032 0.041 ± 0.031 0.021 ± 0.018 0.070 Boulder 12 -0.013 ± 0.031 0.015 ± 0.029 0.003 ± 0.004 0.010 Bromfield 12 -0.010 ± 0.031 0.021 ± 0.007 0.003 ± 0.004 0.010 Denver 4 -0.011 ± 0.024 0.053 ± 0.037 0.024 ± 0.033 0.080 Golden 4 -0.025 ± 0.031 0.039 ± 0.030 0.004 ± 0.028 0.013 Lafayette 4 -0.017 ± 0.029 0.026 ± 0.028 0.008 ± 0.019 0.026 Louisville 4 -0.013 ± 0.025 0.033 ± 0.034 0.007 ± 0.020 0.023 Thomton 4 -0.015 ± 0.028 0.016 ± 0.028 0.004 ± 0.013 0.013 Westminster 12 -0.005 ± 0.007 0.115 ± 0.028 0.004 ± 0.013 0.013 Westminster 12 -10 ± 290 -10 ± 290 -10 ± 290 0.000 Great Western 51 -440 ± 400 230 ± 510 10 ± 290 0.000 Great Western			_			
Arvada 4 -0.002 ± 0.032 0.041 ± 0.031 0.021 ± 0.018 0.070 Boulder 12 -0.013 ± 0.031 0.015 ± 0.029 0.003 ± 0.004 0.010 Broomfield 12 -0.010 ± 0.031 0.021 ± 0.007 0.003 ± 0.004 0.010 Denver 4 -0.011 ± 0.024 0.053 ± 0.037 0.024 ± 0.033 0.080 Golden 4 -0.017 ± 0.029 0.026 ± 0.030 0.004 ± 0.028 0.013 Lafayette 4 -0.017 ± 0.029 0.026 ± 0.028 0.008 ± 0.019 0.026 Louisville 4 -0.013 ± 0.025 0.033 ± 0.034 0.007 ± 0.020 0.023 Thomton 4 -0.015 ± 0.028 0.016 ± 0.028 0.004 ± 0.013 0.013 Westminster 12 -0.005 ± 0.007 0.115 ± 0.024 0.006 ± 0.011 0.020 Reservoir Tritlum Concentration (x 10-9 μCl/ml)e Boulder 1 -10 ± 290 -10 ± 290 -10 ± 290 0.000 Great Western 51 -440 ± 400 230 ± 510 10	Standley	12	-0.005 ± 0.008	0.008 ± 0.008	0.005 ± 0.005	0.017
Boulder 12 -0.013 ± 0.031 0.015 ± 0.029 0.003 ± 0.004 0.010 Broomfield 12 -0.010 ± 0.031 0.021 ± 0.007 0.003 ± 0.004 0.010 Denver 4 -0.011 ± 0.024 0.053 ± 0.037 0.024 ± 0.033 0.080 Golden 4 -0.012 ± 0.029 0.030 ± 0.030 0.004 ± 0.028 0.013 Lafayette 4 -0.017 ± 0.029 0.026 ± 0.028 0.008 ± 0.019 0.026 Louisville 4 -0.013 ± 0.025 0.033 ± 0.034 0.007 ± 0.020 0.023 Thomton 4 -0.015 ± 0.028 0.016 ± 0.028 0.004 ± 0.013 0.03 Westminster 12 -0.005 ± 0.007 0.115 ± 0.028 0.004 ± 0.013 0.03 Westminster 12 -0.005 ± 0.007 0.115 ± 0.044 0.006 ± 0.011 0.020 Reservoir Tritlum Concentration (x 10-9 μCl/ml)e Endurer 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.	Drinking Water					g' *
Bromfield 12 -0.010 ± 0.031 0.021 ± 0.007 0.003 ± 0.004 0.010 Denver 4 -0.011 ± 0.024 0.053 ± 0.037 0.024 ± 0.033 0.080 Golden 4 -0.025 ± 0.031 0.039 ± 0.030 0.004 ± 0.028 0.013 Lafayette 4 -0.017 ± 0.029 0.026 ± 0.028 0.008 ± 0.019 0.026 Louisville 4 -0.013 ± 0.025 0.033 ± 0.034 0.007 ± 0.020 0.023 Thomton 4 -0.015 ± 0.028 0.016 ± 0.028 0.004 ± 0.013 0.013 Westminster 12 -0.005 ± 0.007 0.115 ± 0.044 0.006 ± 0.011 0.020 Reservoir Tritlum Concentration (x 10-9 μCl/ml)e Boulder 1 -10 ± 290 -10 ± 290 -10 ± 290 0.000 Great Western 51 -440 ± 400 230 ± 510 10 ± 30 0.001 Ralston 1 40 ± 150 40 ± 150 40 ± 150 0.002 South Boulder 1 40 ± 290 -40 ± 290 -40 ± 290 0.	Arvada	4	-0.002 ± 0.032	0.041 ± 0.031	0.021 ± 0.018	0.070
Denver -4 -0.011 ± 0.024 0.053 ± 0.037 0.024 ± 0.033 0.080 Golden 4 -0.025 ± 0.031 0.039 ± 0.030 0.004 ± 0.028 0.013 Lafayette 4 -0.017 ± 0.029 0.026 ± 0.028 0.008 ± 0.019 0.026 Louisville 4 -0.013 ± 0.025 0.033 ± 0.034 0.007 ± 0.020 0.023 Thomton 4 -0.015 ± 0.028 0.016 ± 0.028 0.004 ± 0.013 0.013 Westminster 12 -0.005 ± 0.007 0.115 ± 0.024 0.006 ± 0.011 0.020 Reservoir Tritlum Concentration (x 10-9 μCl/ml)e Boulder 1 -10 ± 290 -10 ± 290 -10 ± 290 0.000 Great Western 51 -440 ± 400 230 ± 510 10 ± 30 0.001 Ralston 1 40 ± 150 40 ± 150 40 ± 150 0.002 South Boulder 1 -40 ± 290 -40 ± 290 -40 ± 290 0.002 Standley 51 -390 ± 400 300 ± 430 0 ± 150 0.000	Boulder	12	-0.013 ± 0.031	0.015 ± 0.029	0.003 ± 0.004	0.010
Golden 4 -0.025 ± 0.031 0.039 ± 0.030 0.004 ± 0.028 0.013 Lafayette 4 -0.017 ± 0.029 0.026 ± 0.028 0.008 ± 0.019 0.026 Louisville 4 -0.013 ± 0.025 0.033 ± 0.034 0.007 ± 0.020 0.023 Thomton 4 -0.015 ± 0.028 0.016 ± 0.028 0.004 ± 0.013 0.013 Westminster 12 -0.005 ± 0.007 0.115 ± 0.044 0.006 ± 0.011 0.020 Reservoir Tritium Concentration (x 10 ⁻⁹ μCi/ml)e Boulder 1 -10 ± 290 -10 ± 290 1.00 ± 290 0.000 Great Western 51 -440 ± 400 230 ± 510 10 ± 30 0.001 Ralston 1 40 ± 150 40 ± 150 40 ± 150 0.002 South Boulder Diversion Canal 1 -40 ± 290 -40 ± 290 -40 ± 290 0.000 Standley 51 -390 ± 400 300 ± 430 0 ± 150 0.000 Drinking Water Arvada 4 -40 ± 100 210 ± 290 110 ± 100 0.006 Broomfield 49 -480 ± 390 420 ± 530 -10 ± 40 0.000 Broomfield 49 -480 ± 390 420 ± 530 -10 ± 40 0.000 Denver 4 -90 ± 330 -10 ± 100 -50 ± 30 0.000 Golden 4 -120 ± 330 80 ± 100 -20 ± 80 0.000 Lafayette 4 -30 ± 100 210 ± 400 50 ± 110 0.003 Louisville 4 -20 ± 100 290 ± 400 130 ± 140 0.003 Thomton 4 -120 ± 400 90 ± 100 10 ± 100 0.005	Broomfield	12	-0.010 ± 0.031	0.021 ± 0.007	0.003 ± 0.004	0.010
Lafayette 4	Denver	- 4	-0.011 ± 0.024	0.053 ± 0.037	0.024 ± 0.033	0.080
Louisville 4 -0.013 ± 0.025 0.033 ± 0.034 0.007 ± 0.020 0.023	Golden	4	-0.025 ± 0.031	0.039 ± 0.030	0.004 ± 0.028	0.013
Thomton 4 -0.015 ± 0.028	Lafayette	4	-0.017 ± 0.029	0.026 ± 0.028	0.008 ± 0.019	0.026
Reservoir Tritium Concentration (x 10 ⁻⁹ μCi/mi) ^e Boulder 1 -10 ± 290 -10 ± 290 -10 ± 290 0.000 Dillon 1 0 ± 290 0 ± 290 0 ± 290 0.000 Great Western 51 -440 ± 400 230 ± 510 10 ± 30 0.001 Ralston 1 40 ± 150 40 ± 150 40 ± 150 0.002 South Boulder Diversion Canal 1 -40 ± 290 -40 ± 290 -40 ± 290 0.000 Standley 51 -390 ± 400 300 ± 430 0 ± 150 0.000 Drinking Water Arvada 4 -40 ± 100 210 ± 290 110 ± 100 0.006 Boulder 51 -470 ± 510 290 ± 300 0 ± 40 0.000 Broomfield 49 -480 ± 390 420 ± 530 -10 ± 40 0.000 Bowler 4 -90 ± 330 -10 ± 100 -50 ± 30 0.000 Golden 4 -120 ± 330 80 ± 100 -20 ± 80 0.000 Louisville </td <td>Louisville</td> <td>4</td> <td>-0.013 ± 0.025</td> <td>0.033 ± 0.034</td> <td>0.007 ± 0.020</td> <td>0.023</td>	Louisville	4	-0.013 ± 0.025	0.033 ± 0.034	0.007 ± 0.020	0.023
Reservoir Tritium Concentration (x 10 ⁻⁹ μCi/ml)e	Thornton	4	-0.015 ± 0.028	0.016 ± 0.028	0.004 ± 0.013	0.013
Boulder 1	Westminster	12	-0.005 ± 0.007	0.115 ± 0.044	0.006 ± 0.011	0.020
Boulder 1	Reservoir		Tritium Co	ncentration (x 10-9	цСi/mi)e	
Dillon 1 0 ± 290 0 ± 290 0 ± 290 0.000 Great Western 51 -440 ± 400 230 ± 510 10 ± 30 0.001 Ralston 1 40 ± 150 40 ± 150 40 ± 150 0.002 South Boulder Diversion Canal 1 -40 ± 290 <td></td> <td>1 .</td> <td></td> <td></td> <td></td> <td>0.000</td>		1 .				0.000
Great Western 51						
Ralston 1 40 \pm 150 40 \pm 150 40 \pm 150 0.002 South Boulder Diversion Canal 1 40 \pm 290 \pm 400 \pm 290 \pm 400 \pm 290 0.000 Standley 51 -390 \pm 400 300 \pm 430 0 \pm 150 0.000 Drinking Water Arvada 4 40 \pm 100 210 \pm 290 110 \pm 100 0.006 Boulder 51 470 \pm 510 290 \pm 300 0 \pm 40 0.000 Broomfield 49 480 \pm 390 420 \pm 530 -10 \pm 40 0.000 Denver 4 90 \pm 330 -10 \pm 100 -50 \pm 30 0.000 Golden 4 -120 \pm 330 80 \pm 100 -20 \pm 80 0.000 Lafayette 4 -30 \pm 100 210 \pm 400 50 \pm 110 0.003 Thornton 4 -120 \pm 400 90 \pm 100 10 \pm 100 0.005			_ ,			
South Boulder Diversion Canal 1						
Diversion Canal 1		. •	40 2 100			0.002
Standley 51 -390 ± 400 300 ± 430 0 ± 150 0.000 Drinking Water Arvada 4 -40 ± 100 210 ± 290 110 ± 100 0.006 Boulder 51 -470 ± 510 290 ± 300 0 ± 40 0.000 Broomfield 49 -480 ± 390 420 ± 530 -10 ± 40 0.000 Denver 4 -90 ± 330 -10 ± 100 -50 ± 30 0.000 Golden 4 -120 ± 330 80 ± 100 -20 ± 80 0.000 Lafayette 4 -30 ± 100 210 ± 400 50 ± 110 0.003 Louisville 4 -20 ± 100 290 ± 400 130 ± 140 0.007 Thornton 4 -120 ± 400 90 ± 100 10 ± 100 0.005		1	-40 ± 290 ·	-40 + 290	-40 + 290	0.000
Arvada 4						
Arvada 4 -40 \pm 100 210 \pm 290 110 \pm 100 0.006 Boulder 51 -470 \pm 510 290 \pm 300 0 \pm 40 0.000 Broomfield 49 -480 \pm 390 420 \pm 530 -10 \pm 40 0.000 Denver 4 -90 \pm 330 -10 \pm 100 -50 \pm 30 0.000 Golden 4 -120 \pm 330 80 \pm 100 -20 \pm 80 0.000 Lafayette 4 -30 \pm 100 210 \pm 400 50 \pm 110 0.003 Louisville 4 -20 \pm 100 290 \pm 400 130 \pm 140 0.007 Thornton 4 -120 \pm 400 90 \pm 100 10 \pm 100 0.005	Duintaine Wate	_				
Boulder 51 -470 ± 510 290 ± 300 0 ± 40 0.000 Broomfield 49 -480 ± 390 420 ± 530 -10 ± 40 0.000 Denver 4 -90 ± 330 -10 ± 100 -50 ± 30 0.000 Golden 4 -120 ± 330 80 ± 100 -20 ± 80 0.000 Lafayette 4 -30 ± 100 210 ± 400 50 ± 110 0.003 Louisville 4 -20 ± 100 290 ± 400 130 ± 140 0.007 Thornton 4 -120 ± 400 90 ± 100 10 ± 100 0.005			40 - 100	210 + 200	110 . 100	0.006
Broomfield 49 -480 ± 390 420 ± 530 -10 ± 40 0.000 Denver 4 -90 ± 330 -10 ± 100 -50 ± 30 0.000 Golden 4 -120 ± 330 80 ± 100 -20 ± 80 0.000 Lafayette 4 -30 ± 100 210 ± 400 50 ± 110 0.003 Louisville 4 -20 ± 100 290 ± 400 130 ± 140 0.007 Thornton 4 -120 ± 400 90 ± 100 10 ± 100 0.005						and the second second
Denver 4 -90 ± 330 -10 ± 100 -50 ± 30 0.000 Golden 4 -120 ± 330 80 ± 100 -20 ± 80 0.000 Lafayette 4 -30 ± 100 210 ± 400 50 ± 110 0.003 Louisville 4 -20 ± 100 290 ± 400 130 ± 140 0.007 Thornton 4 -120 ± 400 90 ± 100 10 ± 100 0.005						
Golden 4 -120 ± 330 80 ± 100 -20 ± 80 0.000 Lafayette 4 -30 ± 100 210 ± 400 50 ± 110 0.003 Louisville 4 -20 ± 100 290 ± 400 130 ± 140 0.007 Thornton 4 -120 ± 400 90 ± 100 10 ± 100 0.005						
Lafayette 4 -30 \pm 100 210 \pm 400 50 \pm 110 0.003 Louisville 4 -20 \pm 100 290 \pm 400 130 \pm 140 0.007 Thornton 4 -120 \pm 400 90 \pm 100 10 \pm 100 0.005	- ·		_			
Louisville 4 -20 \pm 100 290 \pm 400 130 \pm 140 0.007 Thornton 4 -120 \pm 400 90 \pm 100 10 \pm 100 0.005						
Thornton 4 -120 ± 400 90 ± 100 10 ± 100 0.005	•		 :			
		· ·	_		-	
AA620111012fei 21 -200 ± 200 = 200 = 250 -200 = 200 =					_	
	4462(IIIII12f6[JI	-300 ± 300	,, o <u>n</u> 020	30 <u>+</u> 30	3.50 0

a. C minimum = minimum measured concentration; C maximum = maximum measured concentration; C mean = mean calculated concentration.

b. Radiochemically determined as americium-241. The interim standard calculated Derived Concentration Guide (DCG) for americium in water available to members of the public is 30 x 10^{-9} µCl/ml (Appendix D).

c. Calculated as 1.96 standard deviations of the individual measurements.

d. Calculated as 1.96 standard deviations of the mean.

e. The interim standard calculated DCG for tritium in water available to members of the public is 2,000,000 X 10-9 μCi/ml (Appendix D).

Location	Number of Analyses	C minimuma c	C maximuma.c	C meana d	Percent of DCG (C mean)
Reservoir		Plutonium	Concentration		
Boulder	1	0.000 ± 0.031	0.000 ± 0.031	0.000 ± 0.031	0.000
Dillon	1	-0.007 ± 0.029	-0.007 ± 0.029	-0.007 ± 0.029	0.000
Great Western	12	-0.003 ± 0.006	0.061 ± 0.038	0.006 ± 0.010	0.020
Raiston	1	0.002 ± 0.030	0.002 ± 0.030	0.002 ± 0.030	0.006
South Boulder			,		•
Diversion Canal	1	0.053 ± 0.039	0.053 ± 0.039	0.053 ± 0.039	0.177
Standley	12	-0.009 ± 0.029	0.004 ± 0.007	0.000 ± 0.002	0.000
Drinking Water					
Arvada	4	-0.017 ± 0.030	0.031 ± 0.033	0.003 ± 0.020	0.010
Boulder	12	-0.004 ± 0.007	0.009 ± 0.008	0.001 ± 0.002	0.003
Broomfield	12	-0.009 ± 0.028	0.006 ± 0.013	0.000 ± 0.003	0.000
Denver	4	-0.008 ± 0.028	0.002 ± 0.036	-0.005 ± 0.005	0.000
Golden	4	-0.018 ± 0.030	0.007 ± 0.031	-0.001 ± 0.012	0.000
Lafayette	4	-0.012 ± 0.028	0.004 ± 0.034	0.000 ± 0.008	0.000
Louisville	4	-0.018 ± 0.034	0.002 ± 0.033	-0.008 ± 0.009	0.000
Thornton	4	-0.003 ± 0.031	0.008 ± 0.031	0.002 ± 0.005	0.006
Westminster	12	-0.016 ± 0.027	800.0 ± 800.0	0.000 ± 0.003	0.000
Reservoir		Uranium Co	ncentration (x 1	10-9 μCi/ml)e	I
Boulder	1	-0.08 ± 0.06	-0.08 ± 0.06	-0.08 ± 0.06	0.00
Dillon	1	0.65 ± 0.09	0.65 ± 0.09	0.65 ± 0.09	0.13
Great Western	12	0.88 ± 0.14	2.03 ± 0.23	1.37 ± 0.23	0.27
Ralston	1	2.75± 0.16	2.75 ± 0.16	2.75 ± 0.16	0.55
South Boulder	·		- · · · -		
Diversion Canal	1	0.25 ± 0.07	0.25 ± 0.07	0.25 ± 0.07	0.05
Standley	12	1.05± 0.15	3.44 ± 0.20	1.72 ± 0.34	0.34
Drinking Wate	r				•
Arvada	4	-0.08 ± 0.08	0.67 ± 0.12	0.43 ± 0.33	0.09
Boulder	12	-0.10 ± 0.06	0.75 ± 0.18	0.26 ± 0.17	0.05
Broomfield	12	0.32 ± 0.11	1.58 ± 0.20	0.93 ± 0.25	0.19
Denver	4	0.13 ± 0.11	0.89 ± 0.18	0.72 ± 0.64	0.14
Golden	4	0.14 ± 0.10	1.66 ± 0.20	0.80 ± 0.62	0.16
Lafayette	4	-0.06 ± 0.08	0.24 ± 0.16	0.10 ± 0.12	0.02
Louisville	4	-0.02 ± 0.07	0.19 ± 0.11	0.09 ± 0.10	0.02
Thornton	4	0.89 ± 0.09	2.45 ± 0.28	1.54 ± 0.64	0.31
Westminster	12	0.26 ± 0.11	1.32 ± 0.11	0.72± 0.20	0.14

a. C minimum = minimum measured concentration; C maximum = maximum measured concentration; C mean = mean calculated concentration.

b. Radiochemically determined as plutonium-239 and -240. The calculated Derived Concentration Guide (DCG) for plutonium in water available to members of the public is 30 x 10⁻⁹ μCi/ml (Appendix D).

c. Calculated as 1.96 standard deviations of the individual measurements.

d. Calculated as 1.96 standard deviations of the mean.

e. Radiochemically determined as uranium-233, -234, and -238. The calculated DCG for uranium in water available to members of the public is 500 x 10⁻⁹ µCi/ml (Appendix D).

	CONTAMINANT	 	PLUTONI	11M-220		 	LIDANIII	M-234,238		 	AMERICI	UM-2/11	
	CONTAMINANT	<u> </u>	PLUTONI	OM-239			UNANIUN	n-234,236			AMERICI	UM-241	7
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
J	1									1			
124 RAW	1/2-1/29	-0.005	0.034			1.87				0.028	0.051		
124 RAW	2/5-2/26	0.004	0.031			0.71			-	0.002	0.040		``
124 RAW	3/5-3/26	0.017	0.053			3.29				0.005	0.011		
124 RAW	4/2-4/30	-0.020				1.08				0.004	0.037		
124 RAW	5/7-5/28	-0.002	0.032			0.59							
A-3	1/12/90	-0.022	0.029			10.99				0.030	0.061		
A-3	2/16/90	-0.013	0.026			3.18	-			-0.017	0.035		
A-3	3/14-3/18	0.024	0.048			8.26				0.011	0.046		
A-3	3/22-3/24	0.026	0.070			5.09	-			-0.039	0.060		
A-3	3/29-3/30	-0.021	10.028	-		5.53				0.024	0.050		
A-3	3/31-4/1	N/A				4.71		- 		0.010	0.050		
A-3	4/2-4/6	-0.002	0.029			4.62				0.009	0.046		
A-3	4/7-4/8	-0.017	0.028			4.79				-0.021	0.034		
A-3	4/9-4/12	0.014	0.040			4.98				0.010	0.041		
A-3	4/13-4/15	-0.007	0.035			5.31				-0.003	0.038		
A-3	4/16-4/20	0.000	0.028			4.51				-0.006	0.037		
A-3	4/21-4/22	-0.008	0.027			4.90				-0.011	0.037		
A-3	4/23-4/27	0.009	0.032			5.35				0.007	0.040		
A-3	4/28-4/29	0.018	0.058			5.14				0.019	0.059		
A-3	4/30-5/2	-0.010	0.034			4.92				0.001	0.037		
A-4	3/23/88-03/25/88	-0.003	0.030			11.20	1.20			0.030	0.020		
A-4	04/26/88-04/29/88	0.006				9.10	0.70			0.020	0.030		
A-4	5/27/88	0.020	0.030			4.30	0.30			0.020	0.020		
A-4	6/1/88	0.091	0.035			2.50	0.20			0.024	0.026		
A-4	9/28/88-9/30/88	0.001	0.028			5.46	0.62			0.013	0.027		
A-4	04/12/89 - 04/14/89	0.001	0.035			8.43	0.49			0.018	0.028		

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	CONTAMINANT	\rightarrow	PLUTONI	UM-239			URANIUN	Л-234,238			AMERIC	UM-241	
			1				Ţ				1		
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
<u> </u>	<u> </u>												
A-4	04/15/89 - 04/18/89	0.020	0.087			8.78	0.48			-0.005	0.027		\
A-4	8/24/89 to 8/27/89	0.029	0.033			5.39	0.33			-0.003	0.030		
A-4	8/28/89 to 9/1/89	-0.015	0.028			6.36	0.39			0.045	0.030		
A-4	09/02/89-09/03/89	-0.016	0.028			5.66	0.40			0.109	0.037	•	
A-4	09/04/89-09/08/89	0.023	0.032			5.14	0.37		·	-0.007	0.028		
A-4	09/09/89-09/10/89	0.001	0.030			5.93	0.38			-0.007	0.030		
A-4	09/11/89-09/15/89	0.008	0.029			5.49	0.38			-0.013	0.029	•	
A-4	09/16/89-09/17/89	-0.002	0.029			4.84	0.33			0.023	0.036		
A-4	09/18/89-09/20/89	0.006	0.029			4.48	0.31			-0.007	0.030		
A-4	09/23/89-09/24/89	-0.001	0.029			4.48	0.31			-0.012	0.029		
A-4	09/27/89-09/29/89	-0.002	0.030			4.79	0.32			-0.026	0.030		
A-4	09/30/89-10/01/89	-0.017	0.027			5.07	0.37			-0.008	0.031	_	
A-4	10/02/89 to 10/06/89	-0.003	0.028			5.18	0.35			-0.008	0.032		
A-4	10/07/89 to 10/08/89	**	**		_	5.57	0.37			0.018	0.032		
A-4	10/09/89 to 10/13/89	0.010	0.030			5.43	0.34			-0.025	0.031		}
A-4	10/14/89 to 10/15/89	0.020	0.032			6.71	0.42			0.023	0.033		
A-4	10/16/89 to 10/17/89	**	**			7.25	0.45			**	••		
A-4	1/16/90	0.003	0.039			7.70				0.044	0.056		
A-4 W	3/23/90	0.009	0.005	-		9.18				N/A	N/A		
A-4 W	3/24/90			0.016	0.007			3.89				N/A	N/A
A-4	3/29-3/30			-0.019	0.030			5.74				0.002	0.046
A-4	3/31-4/1			-0.013	0.028			6.86				0.003	0.049
A-4	4/2-4/6			-0.006	0.035			5.49				-0.024	0.034
A-4	4/7-4/8			0.007	0.035			5.79				-0.007	0.024
A-4	4/9-4/12			0.013	0.042			5.22				0.040	0.042
A-4	4/13-4/15			0.026	0.042			5.05				0.015	0.039
A-4	4/16-4/20			0.006	0.029			7.60				0.019	0.041
A-4	4/21-4/22			-0.011	0.026			4.47				0.012	0.024
A-4	4/23-4/27			0.006	0.032			3.60				-0.008	0.035

	CONTAMINANT		PLUTONI	UM-239			URANIIIA	M-234,238			AMERICI	UM-241	
	- OOM FAMILITATE		1 2010.0	0111-200		- " "	L	11-254,255	· .	-	AMERICI	0101-24)	
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
1	1		\ \						(-/		000(1)		<u> </u>
A-4	4/28-4/29			0.009	0.048			3.58				-0.011	`0.036
A-4	4/30-5/4		-	0.001	0.033			4.26				-0.005	0.035
A-4	5/5-5/6			0.008	0.038			4.26			-, -	0.000	0.015
A-4	5/7-5/11			-0.009	0.034			3.57				0.038	0.069
A-4	5/12-5/13			0.033	0.048			1.68				-0.020	0.034
A-4	5/14-5/18			0.030	0.098			2.37				0.003	0.040
A-4	5/19-5/20			-0.010	0.058			4.03				0.019	0.042
A-4	5/21-5/25		,	0.014	0.040			3.48				0.014	0.045
A-4	5/26-5/28			-0.002	0.039			2.81				0.003	0.040
A-4	5/29-5/30			0.018	0.045			4.19					
													<u> </u>
Arvada	Mar-88	0.002	0.030			0.50	0.20			-0.008	0.020		
Arvada	Jun-88	-0.018	0.028			0.40	0.10			-0.003	0.023		
Arvada	Sep-88	-0.001	0.029			0.09	0.09			0.000	0.023		
Arvada	Dec-88	0.010	0.029			0.57	0.12			0.018	0.030		
Arvada	Apr-89	-0.004	0.037			0.61	0.17			0.041	0.031		
Arvada	Jun-89	0.031	0.033			**	**			0.026	0.028		
Arvada	Sep-89	0.003	0.032			0.67	0.12			-0.002	0.032		
Arvada	Dec-89	-0.017	0.030			0.51	0.09			0.018	0.035		
Arvada	Apr-90	-0.018	0.039			0.74	0.11			0.015	0.042		
						<u></u>							
B-5	02/02/88 - 02/05/88	-0.005	0.050			8.00	0.80			0.020	0.030		
B-5	02/22/88 - 02/26/88	0.006	0.030			4.50	0.50			0.040	0.030		
B-5	03/01/88 - 03/03/88	0.080	0.040			2.50	0.30			-0.004	0.020		
B-5	03/08/88 - 03/09/88	0.030	0.030	•		2.90	0.30			0.004	0.030		
B-5	3/15/88 - 03/16/88	0.030	0.030			3.10	0.30			0.020	0.030		
B-5	03/22/88 - 03/23/88	0.040	0.030			3.40	0.30	_		0.040	0.030		

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	CONTAMINANT	→	PLUTONI	JM-239		Ī	URANIUN	1 -234,238			AMERICI	JM-241	
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LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
1	↓ ↓												
B-5	3/30/88 - 03/31/88	0.040	0.030			3.90	0.30			0.040	0.030		١
B-5	4/7/88	0.010	0.060			4.10	0.20			0.040	0.050		
B-5	04/12/88 - 04/13/88	0.030	0.030	,		3.70	0.40			0.020	0.020		
B-5	04/21/88 - 04/22/88	0.010	0.030			3.50	0.30			0.020	0.020		
B-5	5/27/88	0.030	0.030			3.40	0.40			0.030	0.030		
B-5	6/1/88	0.003	0.029			2.10	0.20			0.002	0.023		
B-5	9/13/88-9/16/88	-0.017	0.054			2.69	0.25			0.017	0.027		
B-5	11/14/88 - 11/18/88	-0.017	0.025			3.85	0.37			0.002	0.026		
B-5	12/20/88 - 12/21/88	0.021	0.031			5.25	0.33			0.015	0.027		
B-5	01/31/89 - 02/02/89	0.001	0.031			5.18	0.36			0.012	0.034		
B-5	04/25/89 - 05/01/89	*	*			4.83	0.35			-0.007	0.025		
B-5	05/02/89 to 05/08/89	-0.009	0.033			4.50	0.35			0.000	0.026		
B-5	05/09/89 to 05/15/89	•	•			0.44	0.17			0.016	0.027		
B-5	05/16/89 to 05/26/89	0.007	0.022			2.24	0.23			0.036	0.030		_
B-5	8/17/89 to 8/20/89	0.003	0.010			2.00	0.18			-0.002	0.009		
B-5	8/21/89 to 8/25/89	-0.008	0.028			1.50	0.16			0.024	0.034		
B-5	8/26/89 to 8/27/89	0.007	0.031			1.36	0.17			-0.018	0.028		
B-5	8/28/89 to 9/1/89	-0.015	0.028			1.92	0.18			0.019	0.029		
B-5	09/02/89-09/03/89	-0.002	0.030			2.53	0.21			0.009	0.029		
B-5	09/04/89-09/08/89	0.012	0.031			2.59	0.21			0.019	0.034		
B-5	09/09/89-09/10/89	0.007	0.032			1.24	0.16			-0.020	0.027		
B-5	09/11/89-09/15/89	0.016	0.031			0.76	0.13			-0.003	0.030		
B-5	09/16/89-09/17/89	0.003	0.029			1.79	0.18			-0.002	0.031		
B-5	09/18/89-09/20/89	0.009	0.030			3.34	0.23			0.021	0.031		
B-5	09/23/89-09/24/89	-0.011	0.027			1.48	0.16			0.020	0.032		
B-5	09/27/89-09/29/89	-0.018	0.027			2.06	0.18			0.064	0.035		
B-5	09/30/89-10/01/89	0.009	0.031			2.75	0.20			-0.007	0.032		
B-5	1/16/90	-0.007	0.032			6.22				0.012	0.076		
B-5 W	3/21/90			0.002	0.003			4.39				N/A	

	CONTAMINANT	→	PLUTONI	UM-239			URANIUN	1-234,238			AMERICI	JM-241 /	
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LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
Ţ	1					<u> </u>							
B-5 W	3/23/90	0.016	0.007			6.82				N/A			١
B-5	3/23-3/25			-0.014	0.032			4.48				0.003	0.044
B-5	3/26-3/30			-0.036	0.034	<u> </u>		4.28				-0.012	0.042
B-5	3/31-4/1			0.016	0.041			4.25				0.019	
B-5	4/2-4/6			-0.002	0.036			4.03				0.002	0.044
B-5	4/7-4/8			0.026	0.045	1		4.66				0.000	
B-5	4/9-4/12			-0.019	0.027]		4.48				0.025	0.048
B-5	4/13-4/15			0.013	0.046	<u> </u>		3.37		<u> </u>		0.008	0.021
B-5	4/16-4/20			-0.002	0.027			4.83				0.000	0.040
B-5	4/21-4/22			0.003	0.033			4.15				-0.010	0.036
B-5	4/23-4/27			-0.015	0.028			4.86				-0.014	0.034
B-5	4/28-4/29			-0.011	0.039			4.34				-0.005	0.036
		<u> </u>											
Boulder	Jan-88	**	**			0.40				0.020			
Boulder	Feb-88	0.003	0.007			0.20				-0.001			
Boulder	Mar-88	-0.001	0.006			0.50	0.20			0.005			
Boulder	Apr-88	-0.020	0.030			0.03	0.10			0.001			
Boulder	May-88	-0.003	0.007			0.04	0.08			0.002	0.006		
Boulder	Jun-88	-0.002	0.005			0.04	0.02			-0.001			
Boulder	Jul-88	-0.003	0.007			0.32	0.09			0.003	0.006		
Boulder	Aug-88	0.009	0.008			0.11	0.09			0.001	0.006		
Boulder	Sep-88	0.003	0.005			-0.03	0.09			-0.002	0.005		
Boulder	Oct-88	0.004	0.008			0.48	0.11			0.004	0.007		
Boulder	Nov-88	0.004	0.007			0.39	0.12			0.007	0.006		
Boulder	Dec-88	0.003	0.006			0.24	0.10			0.001	0.001		
Boulder	Jan-89	-0.004	0.007			0.57	0.18			-0.001	0.008		
Boulder	Feb-89	0.000	0.006			0.62	0.18			0.003	0.007		
Boulder	Mar-89	-0.002	0.007			0.55	0.18	<u> </u>			**		

	CONTAMINANT		PLUTONI	UM-239		 	URANIIIA	<i>I</i> -234,238			AMERICI	JM-241	
	CONTAMINANT		FLOTON	UNI-233			1	11-234,230			J	2432	
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
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Boulder	Apr-89	••	**	*		0.75	0.18			-0.003	0.006		N.
Boulder	May-89	0.007	0.007			0.30	0.17			0.002	0.007		
Boulder	Jun-89	0.001	0.006	-		-0.10	0.06			0.000	0.006		_
Boulder	Jul-89	0.009	0.008			-0.06	0.08			0.007	0.008		
Boulder	Aug-89	0.000	0.006			0.00	0.12			0.015	0.029		
Boulder	Sep-89	0.000	0.008			0.09	0.11			0.007	0.008		
Boulder	Oct-89	-0.003	0.007			0.32	0.12			0.001	0.009		
Boulder	Nov-89	-0.003	0.006			-0.04	0.08			-0.013	0.031		
Boulder	Dec-89	0.000	0.011			0.14	0.08			0.010	0.012		
Boulder	Jan-90	0.000	0.006			0.06	0.10			0.004	0.012		
Boulder	Feb-90	-0.008	0.011			0.68	0.13			0.005	0.015		
Boulder	Mar-90	0.015	0.016			0.70	0.16			-0.001	0.009		
Boulder	Apr-90	0.000	0.008			0.35	0.11			0.002	0.010		
Boulder	May-90	0.020	0.017			0.25				0.005	0.010		
Broomfield	Jan-88	0.060	0.030			2.60	0.20			0.003	0.005		
Broomfield	Feb-88	0.004	0.007			1.30	0.20			-0.002	0.005		
Broomfield	Mar-88	-0.004	0.006			1.70	0.20			0.030	0.030		
Broomfield	Apr-88	-0.010	0.030		<u> </u>	1.30	0.20	ļ		0.010	 		
Broomfield	May-88	0.001	0.029			0.50	0.10			-0.001	0.006		<u> </u>
Broomfield	Jun-88	-0.001	0.005			0.53	0.05			0.002			
Broomfield	Jul-88	0.000	0.007			0.46	0.10			0.017	0.008		
Broomfield	Aug-88	0.017	0.009			1.02	0.13		<u></u>	0.001	0.006		
Broomfield	Sep-88	0.001	0.006			0.65	0.12			0.004			
Broomfield	Oct-88	0.001	0.008			1.19	0.15			0.003	0.007		
Broomfield	Nov-88	0.000	0.007			1.30	0.14			-0.001	0.006		
Broomfield	Dec-88	0.003	0.007			1.49	0.15			0.000	0.001		
Broomfield	Jan-89	0.000	0.007			1.56	0.21			0.005	0.008		
Broomfield	Feb-89	0.006	0.008			1.58	0.20			0.002	0.007	<u> </u>	

	CONTAMINANT	→	PLUTONII	UM-239			URANIUN	M-234,238			AMERICI	JM-241	
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LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
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Broomfield	Mar-89	**	**			1.36	0.19			**	**		١
Broomfield	Apr-89	-0.003	0.008			1.22	0.19			-0.001	0.006		
Broomfield	May-89	-0.009	0.028			1.31	0.19			-0.001	0.006		
Broomfield	Jun-89	-0.001	0.006			0.59	0.11			0.003	0.005		
Broomfield	Jul-89	0.004	0.008			0.32	0.11			-0.001	0.007		
Broomfield	Aug-89	0.000	0.006			0.76	0.18			0.021	0.007		
Broomfield	Sep-89	0.002	0.008			0.77	0.13			**	**		
Broomfield	Oct-89	0.003	0.008			0.49	0.12			0.001	0.009		
Broomfield	Nov-89	-0.004	0.006			0.63	0.10			-0.010	0.031		
Broomfield	Dec-89	0.006	0.013			0.55	0.09			0.001	0.011		
Broomfield	Jan-90	0.000	0.007			0.68	0.14			-0.004	0.008		
Broomfield	Feb-90	0.000	0.017			0.80	0.16			-0.006	0.012		
Broomfield	Mar-90	0.008	0.013			1.02	0.13			-0.002	0.008		
Broomfield	Apr-90	0.003	0.011			0.51	0.15			-0.002	0.009		
C-1	01/04/88 - 01/08/88	-0.010	0.020			1.60	0.10			0.010	0.005		
C-1	01/11/88 - 01/15/88	0.001	0.005			0.90	0.10			0.006	0.005		
C-1	01/18/88 - 01/22/88	0.002	0.006			1.00	0.10			0.001	0.005		
C-1	01/25/88 - 01/29/88	0.006	0.005			1.00	0.10			-0.003	0.004		
C-1	02/08/88 - 02/12/88	-0.009	0.030			0.80	0.20			0.002	0.020		
C-1	02/15/88 - 02/19/88	-0.001	0.005			0.40	0.20		ļ	0.001	0.005		
C-1	02/22/88 - 02/26/88	0.003	0.006			0.10	0.20			0.003	0.020		
C-1	02/29/88 - 03/04/88	0.020	0.007			-0.01	0.20			0.004	0.005		
C-1	03/07/88 - 03/11/88	0.040	0.030			0.70	0.20			-0.002	0.004		
C-1	03/14/88 - 03/18/88	0.020	0.010			0.50	0.20			0.009	0.007		
C-1	03/21/88 - 03/25/88	0.007	0.006			0.70	0.20			0.001	0.005		
C-1	03/28/88 - 03/31/88	-0.001	0.009			0.50	0.20			0.002	0.008		

	CONTAMINANT	→	PLUTONI	UM-239			URANIUN	Л-234,238			AMERICI	JM-241	
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LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
1	1												
C-1	04/04/88 - 04/08/88	0.060	0.030			0.80	0.03			0.006	0.005		V.
C-1	04/11/88 - 04/15/88	-0.001	0.006			0.50	0.20			0.002	0.020		-
C-1	04/18/88 - 04/22/88	0.005	0.005			1.20	0.20			0.001	0.005		
C-1	04/25/88 - 04/28/88	0.050	0.010			1.00	0.20			0.007	0.005		
C-1	05/02/88 - 05/06/88	-0.030	0.020			1.10	0.20			0.002	0.006		
C-1	05/09/88 - 05/13/88	0.007	0.006			0.80	0.20			0.003	0,005		
C-1	05/16/88 - 05/20/88	0.004	0.005			0.80	0.20			0.010	0.006		
C-1	05/23/88 - 05/27/88	-0.001	0.005			0.60	0.20			-0.002	0.005		
C-1	06/01/88 - 06/03/88	0.013	0.009			0.80	0.10			0.025	0.009		
C-1	06/06/88 - 06/10/88	0.008	0.006			1.40	0.20			0.008	0.006		
C-1	06/13/88 - 06/17/88	0.006	0.007			0.90	0.10			0.001	0.004		
C-1	06/20/88 - 06/24/88	0.000	0.010			1.70	0.20			0.035	0.030		
C-1	10/17/88 - 10/21/88	0.014	0.007			3.15	0.31			0.001	0.005		
C-1	10/24/88 - 10/29/88	0.021	0.008			0.49	0.05			0.007	0.005		
C-1	11/07/88 - 11/11/88	0.008	0.026			0.07	0.01			0.010	0.006		
C-1	11/14/88 - 11/18/88	0.006	0.005			1.15	0.02			-0.001	0.005		
C-1	11/21/88 - 11/23/88	0.003	0.008			0.86	0.14			-0.005	0.023		
C-1	11/28/88 - 12/02/88	0.119	0.035			0.64	0.13			0.004	0.005		
C-1	12/05/88 - 12/09/88	0.003	0.006			1.61	0.31			0.060	0.013		
C-1	12/12/88 - 12/16/88	-0.012	0.025			1.52	0.24			0.017	0.072		
C-1	12/19/88 - 12/23/88	0.004	0.007			0.88	0.13			0.000	0.008		
C-1	01/03/89 - 01/06/89	0.001	0.005			0.93	0.12			0.003	0.005		
C-1	01/09/89 - 01/13/89	0.004	0.006			0.68	0.14			0.007	0.006		
C-1	01/16/89 - 01/20/89	0.003	0.006			0.20	· 0.17			0.000	0.005		
C-1	01/23/89 - 01/27/89	0.006	0.006			0.42	0.24			0.001	0.006		
C-1	01/30/89 - 02/03/89	-0.004	0.005			0.71	0.18			-0.001	0.006		
C-1	01/30/89 - 02/03/89	-0.004	0.005			0.71	0.18			-0.001	0.005		
C-1	02/13/89 - 02/17/89	0.010	0.005			1.92	0.23			-0.003	0.006		
C-1	02/20/89 - 02/24/89	0.010	0.013			0.55	0.17		 	-0.003	 		

	CONTAMINANT	\rightarrow	PLUTONI	UM-239			URANIUN	A-234,238			AMERICI	JM-241	
			1				1				1		
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
	1												
C-1	03/06/89 - 03/10/89	-0.001	0.005			0.29	0.16			0.006	0.006		N.
C-1	03/13/89 - 03/17/89	0.001	0.007			0.46	0.16			0.005	0.006		
C-1	03/20/89 - 03/24/89	*	•			0.68	0.17			-0.002	0.008		
C-1	03/27/89 - 03/31/89	0.035	0.008			0.34	0.17			٠	•		
C-1	04/03/89 - 04/07/89	•	•			0.59	0.17			-0.003	0.024		
C-1	04/10/89 - 04/14/89	0.009	0.007			•	•			0.018	0.007		
C-1	04/17/89 - 04/21/89	0.005	0.007			1.37	0.20			0.004	0.006		
C-1	04/24/89 - 04/28/89	-0.001	0.007			1.39	0.21			•	•	_	
C-1	05/01/89 to 05/05/89	0.010	0.007			1.49	0.20			-0.002	0.005		
C-1	05/08/89 to 05/12/89	0.020	0.008			1.64	0.21			0.006	0.005	_	
C-1	05/15/89 to 05/19/89	0.005	0.007			0.60	0.17			0.004	0.006		
C-1	05/22/89 to 05/26/89	0.021	0.006			1.36	0.22			0.002	0.005		
C-1	06/05/89 to 06/09/89	0.014	0.008			1.12	0.19			0.075	0.014		
C-1	06/12/89 to 06/16/89	0.012	0.007			0.82	0.18			-0.001	0.005		
C-1	06/19/89 to 06/23/89	0.008	0.006			5.00	0.42			0.000	0.005		
C-1	06/26/89 to 06/30/89	•	•			2.22	0.19			-0.002	0.005		
C-1	09/11/89-09/15/89	0.070	0.040			1.64	0.17			0.005	0.007		
C-1	09/18/89-09/22/89	0.057	0.036			2.54	0.21			0.003	0.006		
C-1	09/25/89-09/29/89	0.010	0.007			2.78	0.22			0.020	0.007	_	
C-1	10/02/89 to 10/06/89	0.034	0.034			3.06	0.25			0.001	0.006		
C-1	10/09/89 to 10/13/89	**	**			2.94	0.22			**	**	_	
C-1	10/16/89 to 10/20/89	0.011	0.007			2.38	0.20			0.018	0.008		
C-1	10/23/89 to 10/27/89	••	**			2.39	0.21			0.036	0.010		
C-1	11/06/89 to 11/10/89	-0.002	0.006			1.94	0.13			0.075	0.041		
C-1	11/13/89 to 11/17/89	-0.021	0.030			2.32	0.14			0.021	0.009		
C-1	11/20/89 to 11/22/89	0.001	0.032			2.13	0.15			0.002	0.011		
C-1	11/27/89 to 12/01/89	0.006	0.007			1.91	0.12			0.005	0.007	_	
C-1	12/04/89 to 12/08/89	0.008				1.73	0.12			0.001	0.007		
C-1	12/11/89 to 12/15/89	0.014				1.92	0.13			0.002	0.007		

	CONTAMINANT	→	PLUTONI	UM-239		1	URANIUN	A-234,238			AMERICI	JM-241	
•••						<u> </u>	1	•			1		
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
1	\			: :									
C-1	12/18/89 to 12/22/89	0.078	0.014			2.06	0.14			0.002	0.007		\
C-1	01/02/90-01/05/90	0.003	0.008	•		2.07	0.19			0.002	0.007		
C-1	01/08/90-01/12/90	0.009	0.011			1.51	0.15			0.001	0.013		
C-1	01/15/90-01/19/90	0.002	0.012			2.21	0.28			0.002	0.009		
C-1	01/22190-01/26/90	0.048	0.019			1.79	0.21			0.003	0.009		
C-1	02/05/90-02/09/90	0.008	0.008			1.9	0.22			0.002	0.007		
C-1	02/12/90-02/16/90	-0.021	0.04			1.46	0.17			0.001	0.013		
C-1	02/19/90-02/23/90	0	0.007			1.82	0.13			-0.004	0.007		
C-1	03/05/90 - 03/09/90	0.005	0.016			1.74	0.16			0.033	0.026		
C-1	03/14/90 - 03/16/90	-0.004	0.018			1.31	0.17			0.04	0.021		
C-1	03/19/90 - 03/23/90	0.018	0.017			0.69	0.16			0.01	0.011		
C-1	03/26/90 - 03/30/90	0.004	0.014			0.63	0.13			0.004	0.01		
C-1	04/02/90 - 04/06/90	0.005	0.02			0.6	0.13			-0.001	0.009		
C-1	04/09/90 - 04/13/90	0.002	0.013			0.5	0.11			-0.006	0.009		
C-1	04/16/90 - 04/20/90	0.001	0.01			0.83	0.12			-0.002	0.008		
C-1	04/23/90 - 04/27/90	0.008	0.012			1.01	0.15			-0.001	0.007		
C-2	03/30/88 - 03/31/88	0.090	0.030			4.50	+			0.020			
C-2	06/02/88 - 06/03/88	0.103	0.038			3.50	+			0.070	+	1	
C-2	04/16/89 to 4/21/89	0.012	0.034			2.78				-0.009	+		
C-2	10/04/89 to 10/06/89	0.027	0.032			1.08	 			0.044		 	<u> </u>
C-2	10/14/89 to 10/15/89	-0.007	0.028			1.09				-0.008			
C-2	10/16/89 to 10/20/89	**	**			1.15	+			**	<u> </u>	<u> </u>	<u> </u>
C-2	1/16/90	0.068	0.046			4.12			ļ	0.045	 		-
C-2	1/26/90	0.023	0.060			4.00	+			0.013	0.047		ļ
C-2 W	3/23/90	0.030	0.012			5.85	5			N/A		<u> </u>	
C-2 BASIN	4/13-4/15			0.020				4.25	<u> </u>	 		0.000	_
C-2	4/13-4/15			0.003	0.034			N/A				-0.010	0.03

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LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
Ţ	Ţ								_				
C-2 BASIN	4/16-4/20			0.008	0.029			4.55				-0.023	`0.034
C-2	4/16-4/20			-0.003	0.028			4.68				-0.003	0.036
C-2 BASIN	4/21-4/22			0.021	0.043			5.03				0.008	0.04
C-2	4/21-4/22			-0.008	0.028			4.82				0.015	0.045
C-2 BASIN	4/23-4/27			-0.015	0.028			4.70				0.009	0.04
C-2	4/23-4/27			0.020	0.060			5.68				-0.008	0.036
C-2	4/23-4/27							5.25					
C-2 BASIN	4/28-4/29			0.011	0.044			N/A				0.009	0.043
C-2	4/28-4/29			0.002	0.047			4.16				-0.014	0.03
		}											
Denver	Mar-88	0.060	0.040			1.90	0.20			-0.005	0.020		
Denver	Jun-88	-0.013	0.029			0.24	0.08]		0.004	0.025		
Denver	Sep-88	-0.007	0.027			0.29	0.10			-0.005	0.023		
Denver	Dec-88	-0.007	0.026			1.23	0.15			0.001	0.024		
Denver	Apr-89	0.002	0.036			0.89	0.18			0.000	0.026		<u> </u>
Denver	Jun-89	**	**			**	**			**	**		
Denver	Sep-89	-0.008	0.028			0.13	0.11			0.053	0.037		
Denver	Dec-89	-0.006	0.031			1.57	0.11			0.063	0.038		
Denver	Apr-90	-0.009	0.030			2.54	0.22			-0.014	0.036		
		T											
Golden	Mar-88	-0.002	0.030			2.10	0.20			-0.009	0.020		
Golden	Jun-88	-0.005	0.028			0.39	0.08			0.003	0.025		
Golden	Sep-88	0.008	0.029			0.98	0.15			-0.002	0.024		
Golden	Dec-88	-0.005	0.027			1.00	0.13			-0.007	0.024		
Golden	Apr-89	0.003	0.036			1.66	0.20			0.039	0.030		
Golden	Jun-89	**	**			**	**			**	**		
Golden	Sep-89	0.007	0.031			0.78	0.14			0.014	0.028		

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	CONTAMINANT		PLUTONI	UM-239		ļ	URANIUN	<i>I</i> -234,238		 	AMERICI	JM-241	<u> </u>
			<u></u>				1				1		
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
	<u> </u>									<u> </u>			
Golden	Dec-89	-0.018	0.030			0.60				-0.025	:		\
Golden	Apr-90	0.001	0.030			1.93	0.20			-0.013	0.038		
Great Western	Jan-88	0.009	0.006			3.20	0.30			0.004	0.005		
Great Western	Feb-88	0.007	0.007			2.80	0.30			-0.004	0.005		
Great Western	Mar-88	0.002	0.007			3.30	0.30			0.003			
Great Western	Apr-88	0.020	0.030			3.60	0.30			0.004	0.006		
Great Western	May-88	-0.003	0.007			0.20	0.10			-0.001	0.006	***	
Great Western	Jun-88	0.000	0.006			1.60				-0.001	0.005		i
Great Western	Jul-88	0.000	0.008			1.58	0.15			0.006	0.007		
Great Western	Aug-88	0.004	0.007			1.60	0.16			0.006	0.007		
Great Western	Sep-88	0.002	0.005			1.39	0.15			0.003	0.005		
Great Western	Oct-88	0.000	0.007			1.57	0.15			0.011	0.007		
Great Western	Nov-88	0.001	0.006			2.00	0.18			-0.002	0.006		
Great Western	Dec-88	0.001	0.007			1.79	0.17			0.000	0.001		
Great Western	Jan-89	0.000	0.007			1.66	0.21			0.009	0.009		
Great Western	Feb-89	0.001	0.007			1.64	0.21			0.000	0.007		<u> </u>
Great Western	Mar-89	**	**			1.66				**	••		<u> </u>
Great Western	Apr-89	••	**			**	**			-0.003	0.006		
Great Western	May-89	0.005	0.006			2.03	0.23		<u> </u>	0.002	0.007		
Great Western	Jun-89	-0.003	0.006			1.54	0.15			0.003	0.005		
Great Western	Jul-89	0.005	0.008			0.99	0.13			0.000	0.007	<u>.</u> .	<u> </u>
Great Western	Aug-89	-0.003	0.006			0.89	0.15			0.002	0.006		
Great Western	Sep-89	-0.002	0.007			0.88	0.14			0.005	0.008		
Great Western	Oct-89	**	**			**	••			-0.001	0.009		
Great Western	Nov-89	-0.003	0.006			1.07	0.10			0.022	0.037		
Great Western	Dec-89	0.002	0.011			1.07	0.09			0.025	0.012		
Great Western	Jan-90	0.004	- 0.008			1.21	0.13		T	-0.006	0.009		

	CONTAMINANT -		PLUTONIUM-239				URANIUN	M-234,238			AMERICI	JM-241.	
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LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
Ţ	Ţ												
Great Western	Feb-90	0.014	0.050			1.12	0.13			0.001	0.015		\
Great Western	Mar-90	0.011	0.021			1.54	0.19			-0.003	0.008		
Great Western	Apr-90	-0.001	0.008			1.48	0.15			0.000	0.009		
	N .00	0.000	0.000			0.00	0.10			0.010	0.000		
Lafayette	Mar-88	-0.006	0.030			0.20	0.10			-0.010	0.020		
Lafayette	Jun-88	-0.008	0.030 0.030			0.09	0.07 0.09			-0.004	0.023		
Lafayette	Sep-88 Dec-88	-0.012	0.030			0.18	0.09			0.021	0.022		
Lafayette		0.003	0.026			0.24	0.16			0.021			1
Lafayette	Apr-89 Jun-89	0.003	0.036		<u> </u>	0.24	0.16			0.028	0.025		
Lafayette Lafayette	Sep-89	-0.012				0.14	0.12			-0.017	0.029		
Lafayette	Dec-89	0.004	0.028			0.14	0.12			0.020			<u> </u>
Lafayette	Apr-90	-0.007	0.034			0.03	0.11			-0.013	 		<u> </u>
Luidyollo	7,5,00	0.007	0.00										
Louisville	Mar-88	0.003	0.030			0.20	0.20			-0.010	0.020		
Louisville	Jun-88	-0.005	0.030			0.02	0.07			-0.005	0.023		
Louisville	Sep-88	0.014	0.031			0.01	0.09			-0.016	0.022		
Louisville	Dec-88	0.008	0.029			0.28	0.09			-0.004	0.024		
Louisville	Apr-89	-0.018	0.034			0.03	0.16			-0.013	0.025		<u> </u>
Louisville	Jun-89	-0.011	0.028			**	**			0.012	0.027		<u> </u>
Louisville	Sep-89	0.002	0.033			0.19	0.11			-0.006	0.029		
Louisville	Dec-89	-0.003	0.032			0.16	0.08			0.033	0.034		
Louisville	Apr-90	-0.004	0.031			0.19	0.10			0.025	0.046		
Chardiantala	loc 00	0.000	0.040			2.50	0.20			0.020	0.007		
Standley Lake Standley Lake	Jan-88 Feb-88	-0.002			 	2.50	1			-0.020	0.007		

	CONTAMINANT	→	PLUTONII	UM-239		1	URANIUM	1 -234,238			AMERICH	JM-241	<u> </u>
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LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
1	<u></u>												
Standley Lake	Mar-88	0.005	0.008			1.91	0.20			0.020	0.008		,
Standley Lake	Apr-88	-0.002	0.030			2.80	0.20			0.020	0.030		
Standley Lake	May-88	0.000	0.007			1.70	0.20			0.000	0.006		
Standley Lake	Jun-88	0.002	0.006			1.40	0.10			0.000	0.005		
Standley Lake	Jul-88	-0.001	0.007			1.64	0.16			0.008	0.006	, i	
Standley Lake	Aug-88	0.005	0.008			1.34	0.15			0.003	0.007		
Standley Lake	Sep-88	0.001	0.005			1.03	0.14			0.000	0.005		
Standley Lake	Oct-88	-0.004	0.006			1.59	0.18			0.014	0.007		
Standley Lake	Nov-88	-0.001	0.007			1.71	0.16			0.000	0.006		
Standley Lake	Dec-88	0.003	0.007			1.59	0.23			0.000	0.001		
Standley Lake	Jan-89	0.000	0.007			1.71	0.22			0.000	0.008		
Standley Lake	Feb-89	-0.001	0.006			1.60	0.20			0.003	0.007		
Standley Lake	Mar-89	0.000	0.007			1.66	0.21			••	**		
Standley Lake	Apr-89	**	**			1.85	0.23			-0.002	0.006		
Standley Lake	May-89	-0.009	0.029			1.80	0.22			0.014	0.007		
Standley Lake	Jun-89	0.000	0.006			1.66	0.17			-0.002	0.005		<u> </u>
Standley Lake	Jul-89	0.004	0.008			1.43	0.15			0.007	0.008		
Standley Lake	Aug-89	0.003	0.006			1.05	0.15			0.011	0.006		<u></u>
Standley Lake	Sep-89	0.004	0.007			1.18	0.15			0.003	0.007		
Standley Lake	Oct-89	**	**			**	**			-0.005	0.008		
Standley Lake	Nov-89	0.001	0.006			1.94	0.13			0.008	0.038		
Standley Lake	Dec-89	0.001	0.010			3.44	0.20			-0.004	0.011		
Standley Lake	Jan-90	-0.003	0.005			1.82	0.17			-0.003	0.007		
Standley Lake	Feb-90	-0.004	0.017			1.81	0.21			-0.004	0.012		
Standley Lake	Mar-90	-0.001	0.013			1.31	0.17			0.004	0.011		
Standley Lake	Apr-90	-0.002	0.007			1.78	0.18			0.006	0.010		
		0.050	0.040			1.70	0.20			0.020	0.020		

···	CONTAMINANT	→	PLUTONI	UM-239		<u> </u>	URANIUN	M-234,238			AMERICI	JM-241	
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LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
<u> </u>	1												
Thornton	Jun-88	0.011	0.032			3.30	0.30		<u> </u>	0.060	0.032		١
Thornton	Sep-88	0.011	0.029			1.07	0.15			0.000	0.024		
Thornton	Dec-88	0.002	0.027			1.42	0.15			0.027	0.028		
Thornton	Apr-89	0.002	0.037			1.36	0.18			0.016	0.028		
Thornton	Jun-89	**	**			**	**			**	**		
Thornton	Sep-89	-0.001	0.030			2.45	0.28			-0.015	0.028		
Thornton	Dec-89	-0.003	0.031			0.89	0.09			0.005	0.034		
Thornton	Apr-90	0.005	0.043			1.56	0.20			0.010	0.043		
W/I	01/25/88 - 01/29/88	0.000	0.020			6.30	0.50			-0.010	0.020		
W/I	02/01/88 - 02/05/88	-0.003	0.005			12.10	1.00			-0.002	0.004		
W/I	02/08/88 - 02/12/88	-0.003	0.009			10.80	0.70			0.010	0.009		
W/I	02/15/88 - 02/18/88	-0.004	0.006			9.70	0.90			-0.004	0.005		
W/I	02/22/88 - 02/26/88	0.005	0.006			6.50	0.70			0.006	0.005		
W/I	2/29/88 - 03/04/88	0.020	0.007			4.30	0.40			0.001	0.005		
W/I	03/07/88 - 03/11/88	0.007	0.006			5.70	0.50			0.020	0.007		
W/I	03/14/88 - 03/18/88	0.030	0.030			4.40	0.40			0.010	0.007		
W/I	03/21/88 - 03/25/88	0.004	0.005			6.40	0.60			0.010	0.006		
W/I	03/28/88 - 03/31/88	-0.003	0.010			10.90	0.80			-0.004	0.010		
W/I	04/04/88 - 04/08/88	0.060	0.020			4.60	0.40			0.010	0.006		
W/I	04/11/88 - 04/15/88	-0.010	0.030			6.10	0.70			0.030	0.030		
W/I	04/18/88 - 04/22/88	0.006	0.006			4.60	0.40			0.010	0.030		
W/I	04/25/88 - 04/29/88	0.060	0.010			4.00	0.30			0.003	0.005		
W/I	05/02/88 - 05/06/88	-0.016	0.025			1.10	0.20			0.002	0.005		
W/I	05/09/88 - 05/13/88	0.027	0.009			1.80				0.018	0.007		
W/I	05/16/88 - 05/20/88	0.039				1.20				0.067	0.032		
W/I	05/23/88 - 05/27/88	-0.001	0.005			0.80				0.001	0.005		
W/I	06/01/88 - 06/03/88	0.006				1.50				0.010			

	CONTAMINANT		PLUTONI	IIM-230		 	HRANIII	M-234,238			AMERICI	IM-241	
	CONTAMINANT	→	PLUTONI	0141-235		 	UNANION	17234,230		<u> </u>	AMERICA	311-2-1	
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
1			1										
W/I	06/06/88 - 06/10/88	-0.008	0.028			0.70	0.10			0.002	0.005		Y
W/I	06/13/88 - 06/17/88	0.002	0.006			1.20	0.10			0.012	0.006		
W/I	06/20/88 - 06/24/88	0.038	0.010			2.50	0.20			0.014	0.006		
W/I	9/12/88-9/16/88	0.013	0.015			2.47	0.21			0.030	0.016		
W/I	9/28/88-9/30/88	-0.008	0.026			5.16	0.39			0.026	0.028		
W/I	11/14/88 - 11/18/88	0.011	0.010			4.37	0.37			0.003	0.008		
W/I	12/20/88 - 12/23/88	0.004	0.009			5.98	0.34			0.062	0.015		
W/I	01/30/89 - 02/03/89	0.017	0.026			6.98	0.45			0.019	0.032		
W/I	03/06/89 - 03/10/89	0.002	0.009			4.92	0.37			0.025	0.011		
W/I	03/13/89 - 03/17/89	0.004	0.017			5.65	0.34			0.003	0.018		
W/I	04/10/89 - 04/14/89	0.009	0.009				•			0.001	0.006		
W/I	04/17/89 - 04/21/89	0.001	0.012			5.47	0.35			-0.001	0.008		
W/I	05/15/89 to 05/17/89	0.055	0.019			6.34	0.44			0.029	0.016		İ
W/I	6/2/89	0.003	0.029			4.36	0.33			0.023	0.025		
W/I	06/05/89 to 06/07/89	0.004	0.010			1.74	0.21			0.009	0.009		
W/I	06/12/89 to 06/16/89	0.000	0.006			2.90	0.22			0.003	0.005		
W/I	06/19/89 to 06/20/89	0.021	0.017			1.55	0.16			0.019	0.014		
W/I	8/18/89 to 8/20/89	0.023	0.013			3.24	0.24			0.003	0.010		<u> </u>
W/I	8/21/89 to 8/25/89	0.002	0.006			2.72	0.20	<u> </u>		0.005	0.006		
W/I	8/26/89 to 8/27/89	0.029	0.018			3.79	0.26			0.024	0.016		ļ <u></u>
W/I	8/28/89 to 9/1/89	0.170	0.030			4.05	0.27			0.024	0.029		<u> </u>
W/I	8/28/89 to 9/1/89	-0.008	0.030								<u> </u>		
W/I	10/02/89 to 10/06/89	0.019	0.032			4.46	0.30			0.025	0.008		1
W/I	10/07/89 to 10/08/89	0.137	0.047			4.64	0.32			0.056	0.035		
W/I	10/09/89 to 10/13/89	**	••			4.04	0.37		<u> </u>	0.018	0.008		
W/I	10/14/89 to 10/15/89	-0.013	0.028			5.77	0.32			0.007	0.031		
W/I	10/16/89 to 10/17/89	0.005	0.016			5.71	0.36			0.013	0.018		
W/I	10/23/89 to 10/27/89	**	**			**	**			**	••		
W/I _	03/12/90 - 03/16/90	-0.013	0.016			3.96	0.35	;		0.009	0.01		

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	CONTAMINANT	→	PLUTONI	JM-239			URANIUN	A-234,238			AMERICH	UM-241	
			→				Ţ				\		
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
1	↓ ↓	}								1,			
W/I	03/19/90 - 03/23/90	0.006	0.01			1.79	0.22			-0.001	0.038		<u> </u>
W/I	03/24/90 - 03/25/90	-0.018	0.028			4.28	0.31			-0.01	0.04		
W/I	03/26/90 - 03/30/90	0.001	0.011			3.81	0.34			0.008	0.011		
W/I	03/31/90 - 04/01/90	-0.009	0.029			3.78	0.23			-0.01	0.04		
W/I	04/02/90 - 04/06/90	0.007	0.013			4.7	0.42			0.006	0.013		
W/I	04/07/90 - 04/08/90	0.004	0.031			2.82	0.29			0.004	0.064		
W/I	04/09/90 - 04/12/90	0.013	0.017			4.66	0.29			-0.003	0.009		
W/I	04/13/90 - 04/15/90	0.032	0.053			5.2	0.28			0.002	0.038		
W/I	04/16/90 - 04/20/90	0.024	0.021			4.74	0.29			0.006	0.01		
W/I	04/21/90 - 04/22/90	0.012	0.038			4.95	0.31			0.037	0.049		
W/I	04/23/90 - 04/27/90	0.001	0.009	7		4.04	0.3			0.003	0.008		
W/I	04/28/90 - 04/29/90	0.004	0.05			3.27	0.26			-0.008	0.036		
											· .		
Westminster	Jan-88	0.003	0.006			1.10	0.10			0.010	0.006		
Westminster	Feb-88	-0.001	0.007			0.40	0.20			0.000	0.005		
Westminster	Mar-88	-0.001	0.007			0.50	0.20			-0.004	0.005		
Westminster	Apr-88	-0.020	0.030			0.50	0.10			0.005	0.007		
Westminster	May-88	-0.003	0.007			0.50	0.09			-0.001	0.006		<u> </u>
Westminster	Jun-88	-0.002	0.005			1.40	0.10			0.000	0.005		
Westminster	Jul-88	-0.004	0.007			0.38	0.10			0.011	0.007		
Westminster	Aug-88	0.018	0.009			0.30	0.09			0.003	0.006		
Westminster	Sep-88	-0.001	0.006			0.37	0.10			0.025	0.008		
Westminster	Oct-88	0.001	0.007			0.68	0.11			0.007	0.008		
Westminster	Nov-88	0.000	0.007			0.59	0.15			0.001	0.006		
Westminster	Dec-88	0.007	0.008			0.72	0.12			0.000	0.000		
Westminster	Jan-89	0.000	0.007			1.19	0.20			-0.005	0.007		
Westminster	Feb-89	0.000				0.80	1			0.005	0.007		
Westminster	Mar-89	0.001	 			0.61	 			••	**		

	CONTAMINANT	→ PLUTONIUM-239				URANIUN	<i>I</i> -234,238		l	AMERICI	JM-241		
			1				1				1		
LOCATION	DATE	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)	RAW	SDs (±)	TREATED	SDs (±)
1	1												
Westminster	Apr-89	-0.002	0.008			1.13	0.08			0.000	0.006		<u> </u>
Westminster	May-89	-0.016	0.027			0.75	0.19			-0.003	0.006		<u>`</u>
Westminster	Jun-89	-0.001	0.006			0.69	0.11			0.002	0.005		
Westminster	Jul-89	0.008	0.008			0.29	0.09			-0.004	0.007		
Westminster	Aug-89	0.002	0.007			0.38	0.12			0.005	0.006		<u> </u>
Westminster	Sep-89	0.002	0.008			0.26	0.11			-0.002	0.008		
Westminster	Oct-89	**	**			0.70	0.13			-0.001	0.008		
Westminster	Nov-89	0.006	0.007			1.32	0.11			0.115	0.044		
Westminster	Dec-89	0.001	0.011			0.46	0.08		,	0.003	0.011		
Westminster	Jan-90	-0.006	0.006			0.62	0.14			0.000	0.008		
Westminster	Feb-90	-0.010	0.019			0.64	0.11			-0.003	0.014		<u></u>
Westminster	Mar-90	0.002	0.009			0.80	0.15			-0.004	0.009		<u> </u>
Westminster	Apr-90	-0.010	0.010			0.54	0.14			0.011	0.011		<u></u>
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POND A-4 INORGANIC DATA

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POND A-4	г	DATE		ΔΙ ΡΗΔ ΤΩΤ	ALPHA DIS	BETA TOT	BETA DIS	TSS r	ъΗ	
NOT	TREATED	16-Jan	RFP	21.00]	U	<i>DE 171 D</i> .0	.00 p		
NOT	TREATED	5-Mar	RFP	8.00	_	7.00				
NOT	TREATED	5-Mar	RFP	U		U				
NOT	TREATED	22-Mar	RFP	16.00	1	Ū				
NOT	TREATED	23-Mar	WESTON	8.70	_	10.00			8.2	
NOT	TREATED	23-Mar	RFP	U		U				
,,,,,	TREATED	23-Mar	REIDEL	8.20		16.20				
	TREATED	24-Mar	WESTON	4.30		5.90			7.32	
	TREATED	25-Mar	REIDEL	4.50		9.60				
	TREATED	26-Mar	REIDEL	2.70		5.30				
	TREATED	27-Mar	REIDEL	10.50		11.30				
	TREATED	28-Mar	REIDEL	6.40		8.20				
NOT	TREATED	29-Mar	WESTON		4.40		7.60	U	8.26	
NOT	TREATED	29-Mar	RFP	U		25.00				
	TREATED	29-Mar	WESTON					U	8.49	
	TREATED	29-Mar	REIDEL	2.90		6.80				
	TREATED	29-Mar	RFP	U·		U				
NOT	TREATED	30-Mar	WESTON						8.87	
NOT	TREATED	30-Mar	REIDEL_		3.50		5.20	U		
NOT	TREATED	30-Mar	RFP	U		U				
	TREATED	30-Mar	WESTON						8.66	
	TREATED	30-Mar	REIDEL		3.70		5.70	U		
	TREATED	30-Mar	REIDEL	4.70		13.00				
	TREATED	30-Mar	RFP	U		U				
NOT	TREATED	31-Mar	WESTON		3.50		5.90	υ	8.95	
	TREATED	31-Mar	WESTON	ı	4.00		6.60	U	8.67	
	TREATED	31-Mar	REIDEL	3.60	7	12.70	1			
	TREATED	31-Mar	RFP	22.00		20.00				
NOT	TREATED	1-Apr	WESTON	4.11		5.44		11.00	9.01	
NOT	TREATED	1-Apr	RFP	υ		U				
	TREATED	1-Apr	WESTON						8.98	
	TREATED	1-Apr	REIDEL	2.86		4.70		6.00		
	TREATED	1-Apr	REIDEL	2.90	7	7.80				
	TREATED	1-Apr	RFP	17.00	_	U				
NOT	TREATED	2-Apr	WESTON	3.92		4.44	_	15.00	9.18	
NOT	TREATED	2-Apr	RFP -	U		~ U ·				
	TREATED	2-Apr	WESTON	4.39		4.28		9.00	8.94	
	TREATED	2-Apr	REIDEL	5.10	•	6.50				
	TREATED	2-Apr	RFP	U		U				

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NOT	TREATED	3-Apr	WESTON	6.44		4.37		19.00	9.24
NOT	TREATED	3-Apr	RFP	12.00		1.00			
	TREATED	3-Apr	WESTON	U		4.97		9.50	8.99
	TREATED	3-Apr	REIDEL	1.00		3.90			
	TREATED	3-Apr	RFP	U		U			
NOT	TREATED	4-Apr	WESTON	6.36		6.29		26.00	9.03
	TREATED	4-Apr	WESTON	4.49		5.31		30.00	8.82
	TREATED	4-Apr	REIDEL	7.00		12.90			
	TREATED	4-Apr	RFP	19.00		U			
NOT	TREATED	5-Apr	WESTON	4.99	2.03	3.44	1.84	19.00	8.7
FILTERED	ONLY	5-Apr	WESTON	5.19		5.39		17.00	8.86
	TREATED	5-Apr	WESTON	4.54	4.70	3.60	2.42	15.00	8.86
	TREATED	5-Apr	REIDEL	6.00		13.20			
	TREATED	5-Apr	RFP	U		U			
NOT	TREATED	6-Apr	WESTON	7.86		5.51		18.00	9.11
FILTERED	ONLY	6-Apr	WESTON	5.51		4.37			N/A
	TREATED	6-Apr	WESTON	6.08		5.39		14.00	9
	TREATED	6-Apr	REIDEL	8.70		21.00			
	TREATED	6-Apr	RFP	U		U			
NOT	TREATED	7-Apr	WESTON	6.88		3.78		21.00	9
FILTERED	ONLY	7-Apr	WESTON	3.62		4.36		15.00	8.79
	TREATED	7-Apr	WESTON	7.37		4.09		10.00	8.49
	TREATED	7-Apr	REIDEL	2.30		7.80			
NOT	TREATED	8-Apr	WESTON	9.35		3.75		20.00	8.9
NOT	TREATED	8-Apr	WESTON	6.39		3.88		23.50	8.9
FILTERED	ONLY	8-Apr	WESTON	7.10		4.44		20.50	8.68
	TREATED	8-Apr	WESTON	9.98		2.72		17.50	8.17
	TREATED	8-Apr	REIDEL	1.00		4.70			
NOT	TREATED	9-Apr	WESTON	9.14		3.68		37.00	7.66
NOT	TREATED	9-Apr	RFP	6.00		-4.00			
FILTERED	ONLY	9-Apr	WESTON	9.98		3.62		17.00	8.51
	TREATED	9-Apr	WESTON	12.20		5.12		16.00	8.74
	TREATED	9-Apr	REIDEL	3.30		4.80			
	TREATED	9-Apr	RFP	U		22.00			
NOT	TREATED	10-Apr	WESTON	7.30		5.04		24.50	9.63
NOT	TREATED	10-Apr	RFP	U		υ			
FILTERED	ONLY -	10-Apr	WESTON	7.27		4.82		11.50	9.59
	TREATED	10-Apr	WESTON	9.27		3.24		14.50	9.53
	TREATED	10-Apr	REIDEL	1.30		2.60			
	TREATED	10-Apr	RFP	U		U			

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NOT														•
FILTERED ONLY 11-Apr TREATED 11-Apr TREATED 11-Apr REDEL 2.50 4.90											•	-		
FILTERED ONLY 11-Apr WESTON TREATED 11-Apr TREATED 11-	NOT	TREATED	11-Apr	WESTON					20.50	8.98		•		-
THEATED 11-Apr THEATED 11-Apr THEODE 2.50 4.90 22.00 15.00 8.34 15.00			•	WESTON					21.50	8.78				
NOT TREATED 11-Apr WESTON 8.94 5.67 4.38 4.19 32.00 9.13		TREATED		WESTON					15.00	8.34		•		
NOT TREATED 12-Apr WESTON 6.94 5.67 4.38 4.19 32.00 9.13		TREATED	-	REIDEL	2.50	_	4.90						7	
FILTERED ONLY 12-Apr TREATED 12-Apr TREATED 12-Apr TREATED 12-Apr REP TREATED 12-Apr REP TREATED 13-Apr TREATED 14-Apr TREATED 15-Apr REIDEL 2.90 16.70 16.70 17.Apr TREATED 15-Apr REIDEL 2.90 16.70 16.70 17.Apr TREATED 16-Apr TREA		TREATED	11-Apr	RFP	13.00		22.00					,		
TREATED 12-Apr REIDEL 2.40 REIDEL REIDEL 2.40	NOT	TREATED	12-Apr	WESTON	8.94	5.67	4.38	4.19	32.00	9.13				
TREATED 12-Apr REIDEL 2-40 3.80	FILTERED	ONLY	12-Apr	WESTON	6.27		4.47		16.00	8.83				
TREATED 12-Apr RFP 7.00 -4.00		TREATED	12-Apr	WESTON	6.66	8.45	3.25	2.74	17.00	8.45			X	·
NOT		TREATED	12-Apr	REIDEL	2.40		3.80						•	
FILTERED		TREATED	12-Apr	RFP	7.00		-4.00							
TREATED 13-Apr FREIDEL 2.70 8.30	NOT	TREATED	13-Apr	WESTON	6.09		6.69		6.00	7.94				
TREATED 13-Apr REIDEL 2.70 8.30	FILTERED	ONLY	13-Apr	WESTON	5.07		6.64		22.00	9.03				
NOT TREATED 13-Apr RFP 4.00 6.00		TREATED	13-Apr	WESTON	4.38		5.02		9.00	9				
NOT TREATED 14-Apr WESTON 3.90 5.73 6.95		TREATED	13-Apr	REIDEL	2.70		8.30							
FILTERED ONLY 14-Apr TREATED 14-Apr TREATED 14-Apr TREATED 14-Apr TREATED 14-Apr TREATED 15-Apr TREATED 16-Apr TREATED 17-Apr		TREATED	13-Apr	RFP	4.00		6.00						•	
TREATED	NOT	TREATED	14-Apr	WESTON	5.25		6.47			9.04				
TREATED 14-Apr REIDEL 2.90 16.70 TREATED 14-Apr RFP 13.00 0.00 TREATED 15-Apr REIDEL 5.20 13.30 TREATED 15-Apr RFP 15.00 4.00 NOT TREATED 16-Apr WESTON 4.78 5.21 21.50 9.12 FILTERED ONLY 16-Apr WESTON 5.80 5.53 31.00 9.06 TREATED 16-Apr REIDEL 3.90 4.90 TREATED 16-Apr RFP 6.00 17.00 NOT TREATED 16-Apr RFP 6.00 17.00 NOT TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr TREATED 17-Apr REIDEL 3.90 3.45 3.39 12.00 9.21 FILTERED ONLY 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93	FILTERED	ONLY	14-Apr	WESTON	3.90		5.73			8.95				
TREATED 14-Apr RFP 13.00 0.00 TREATED 15-Apr REIDEL 5.20 13.30 TREATED 15-Apr RFP 15.00 4.00 NOT TREATED 16-Apr WESTON 4.78 5.21 21.50 9.12 NOT TREATED 16-Apr WESTON 5.71 5.53 23.00 9.12 FILTERED ONLY 16-Apr WESTON 5.80 5.53 31.00 9.06 TREATED 16-Apr REIDEL 3.90 4.90 TREATED 16-Apr REIDEL 3.90 4.90 TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93		TREATED	14-Apr	WESTON	5.09		4.26			8.87				
TREATED 15-Apr RFD 15.00 13.30 NOT TREATED 16-Apr WESTON 4.78 5.21 21.50 9.12 NOT TREATED 16-Apr WESTON 5.71 5.53 23.00 9.12 FILTERED ONLY 16-Apr WESTON 5.80 5.53 31.00 9.06 TREATED 16-Apr REIDEL 3.90 4.90 TREATED 16-Apr REIDEL 3.90 17.00 NOT TREATED 16-Apr REIDEL 3.90 17.00 NOT TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93		TREATED	14-Apr	REIDEL	2.90		16.70							
TREATED 15-Apr RFP 15.00 4.00		TREATED	14-Apr	RFP	13.00		0.00							
NOT TREATED 16-Apr WESTON 4.78 5.21 21.50 9.12 NOT TREATED 16-Apr WESTON 5.71 5.53 23.00 9.12 FILTERED ONLY 16-Apr WESTON 5.80 5.53 31.00 9.06 TREATED 16-Apr WESTON 5.21 6.32 17.00 9.06 NOT TREATED 16-Apr REIDEL 3.90 4.90 9.06 NOT TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 6.92 4.73 23.50 8.93		TREATED	15-Apr	REIDEL	5.20		13.30							
NOT TREATED 16-Apr WESTON 5.71 5.53 23.00 9.12 FILTERED ONLY 16-Apr WESTON 5.80 5.53 31.00 9.06 TREATED 16-Apr WESTON 5.21 6.32 17.00 9.06 TREATED 16-Apr REIDEL 3.90 4.90 4.90 NOT TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 NOT TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 6.92 4.73 23.50 8.93		TREATED	15-Apr	RFP	15.00		4.00							
FILTERED ONLY 16-Apr WESTON 5.80 5.53 31.00 9.06 TREATED 16-Apr REIDEL 3.90 4.90 TREATED 16-Apr RFP 6.00 17.00 NOT TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93	NOT	TREATED	16-Apr	WESTON	4.78		5.21		21.50	9.12				
TREATED 16-Apr WESTON 5.21 6.32 17.00 9.06 TREATED 16-Apr REIDEL 3.90 4.90 TREATED 16-Apr RFP 6.00 17.00 NOT TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93	NOT	TREATED	16-Apr	WESTON	5.71		5.53		23.00	9.12				
TREATED 16-Apr REIDEL 3.90 4.90 TREATED 16-Apr RFP 6.00 17.00 NOT TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93	FILTERED	ONLY	16-Apr	WESTON	5.80		5.53		31.00	9.06				
TREATED 16-Apr RFP 6.00 17.00 NOT TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93		TREATED	16-Apr	WESTON	5.21		6.32		17.00	9.06				
NOT TREATED 17-Apr WESTON 5.21 4.46 20.00 9.38 FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93		TREATED	16-Apr	REIDEL	3.90		4.90							
FILTERED ONLY 17-Apr WESTON 3.60 3.14 17.50 9.24 TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93		TREATED	16-Apr	RFP	6.00		17.00							
TREATED 17-Apr WESTON 3.45 3.39 12.00 9.21 TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93	NOT	TREATED	17-Apr	WESTON	5.21		4.46		20.00	9.38				
TREATED 17-Apr REIDEL 4.90 3.80 NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93	FILTERED	ONLY	17-Apr	WESTON	3.60		3.14		17.50	9.24				
NOT TREATED 18-Apr WESTON 4.46 6.17 19.00 9.42 FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93		TREATED	17-Apr	WESTON	3.45		3.39		12.00	9.21				
FILTERED ONLY 18-Apr WESTON 6.92 4.73 23.50 8.93		TREATED	17-Apr	REIDEL	4.90		3.80							
	NOT	TREATED	18-Apr	WESTON	4.46		6.17		19.00	9.42				
	FILTERED	ONLY	18-Apr	WESTON	6.92		4.73		23.50	8.93				
TREATED 18-Apr <u>WESTON</u> 4.73 4.92 11.00 8.98		TREATED	18-Apr	WESTON	4.73		4.92		11.00	8.98				
TREATED 18-Apr <u>RIEDEL</u> 2.80 4.40		TREATED	18-Apr	RIEDEL	2.80		4.40							
TREATED 18-Apr RFP 2.80 4.40	•	TREATED	18-Apr	RFP	2.80	•	4.40				-		• •	
NOT TREATED 19-Apr WESTON 2.93 4.14 5.23 4.34 20.50 9.33	NOT	TREATED	19-Apr	WESTON	2.93	4.14	5.23	4.34	20.50	9.33				
FILTERED ONLY 19-Apr <u>WESTON</u> 6.79 5.87 18.50 8.92	FILTERED	ONLY	19-Apr	WESTON	6.79		5.87		18.50	8.92				
TREATED 19-Apr <u>WESTON</u> 7.45 6.43 5.14 3.72 16.00 8.8		TREATED	19-Apr	WESTON	7.45	6.43	5.14	3.72	16.00	8.8				

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TREATED	19-Apr	RIEDEL	3.60		8.50						
TREATED	19-Apr	RIEDEL	2.40		6.00		00.50	0.07			
NOT TREATED	20-Apr	WESTON	7.71		4.18		20.50	9.27			
FILTERED ONLY	20-Apr	WESTON	7.26		5.51		21.00	9.14		. ,	
TREATED	20-Apr	WESTON	4.08		4.91		15.50	9.08			
TREATED	20-Apr	RIEDEL	4.40		6.50						
TREATED	20-Apr	RIEDEL	<1		6.80		44.50				
NOT TREATED	21-Apr	WESTON	7.07		4.80		11.50	8.8			
FILTERED ONLY	21-Apr	WESTON	4.57		4.45		54.50	8.3			
TREATED	21-Apr	WESTON	3.73		4.52		6.50	8.42			
TREATED	22-Apr	RIEDEL	1.50		10.50						
NOT TREATED	22-Apr	WESTON	3.56		4.68		11.50	8.92			
FILTERED ONLY	22-Apr	WESTON	6.70		3.98		19.50	8.74		•	
TREATED	22-Apr	WESTON	4.79		4.13		13.50	8.56			
NOT TREATED	23-Apr	WESTON	9.46		5.31		16.00	9.02			
FILTERED ONLY	23-Apr	WESTON	4.77		4.81		16.00	7.84			
FILTERED ONLY	23-Apr	WESTON	5.04		5.07		7.00	7.76			
TREATED	23-Apr	WESTON	7.82		3.86		10.00	8.38			
TREATED	23-Apr	WESTON	4.85		5.52		22.50	9.35			
NOT TREATED	24-Apr	WESTON	6.38		3.99		11.00	8.89			
FILTERED ONLY	24-Apr	WESTON	6.20		4.62		10.5	8.73			
FILTERED ONLY	24-Apr	WESTON	4.67	9.97	3.70	4.70	7.5	8.51			
TREATED	-	WESTON	6.64		3.89		6	8.59			
TREATED	24-Apr	WESTON	5.12	6.12	4.37	4.65	12.5	9.46			
NOT TREATED	-	WESTON	4.60		5.50		14	8.85			
NOT TREATED	•	WESTON	6.92		5.09			8.85			
FILTERED ONLY	25-Apr	WESTON	6.19		5.03		9.5	8.4			
FILTERED ONLY	25-Apr	WESTON	5.08	5.87	6.04	5.15	6	8.29	د		
FILTERED ONLY	25-Apr	WESTON	4.45		4.84		11	8.78			
TREATED	=	WESTON	4.02		6.90		9.5	8.81			
TREATED	•	WESTON	-0.16	0.45	3.48	4.55	U	7.35			
TREATED		WESTON	2.43		4.91		6	9.09			
NOT TREATED	•	WESTON	5.80	7.04	4.00	5.11	Ū	8.34			
FILTERED ONLY	26-Apr	WESTON	3.08	8.21	4.96	4.49	Ü	8.02			
FILTERED ONLY	26-Apr	WESTON	6.50	6.63	5.00	4.29	Ü	8.31			
FILTERED ONLY	26-Apr	WESTON	3.98	8.83	6.16	5.18	U	8.1			
TREATED	-	WESTON	2.90	3.69	4.76	3.84	- U.	7.8			
TREATED	•		0.40	0.39	3.74	4.21	U	7.68			
	, ,	WESTON					U	7.66 9.9			
TREATED	•	WESTON	2.12	2.28	3.70	4.81	-				
NOT TREATED	27-Apr	<u>WESTON</u>	5.16		5.61		5	8.17			

	,				-				
FILTERED	ONLY	27-Apr	WESTON	4.11		4.48		U	8.38
FILTERED	ONLY	27-Apr	WESTIN	3.34		5.40		U	8.12
FILTERED	ONLY	27-Apr	WESTON	4.04		4.57		U	8.41
	TREATED	27-Apr	WESTON	3.64		4.64		U	8.22
	TREATED	27-Apr	WESTON	0.58		3.84		U	7.97
	TREATED	27-Apr	WESTON	2.02		3.40		U	8.91
NOT	TREATED	28-Apr	WESTON	6.04		4.97		U	7.96
FILTERED	ONLY	28-Apr	WESTON	2.86		4.03		U	7.87
FILTERED	ONLY	28-Apr	WESTON	6.11	•	5.51		46.5	7.81
FILTERED	ONLY	28-Apr	WESTON	6.90		4.34		U	7.98
	TREATED	28-Apr	WESTON	5.14		5.18		U	7.61
	TREATED	28-Apr	WESTON	2.24		4.63		U	7.5
	TREATED	28-Apr	WESTON	2.95		4.84		U	8.46
NOT	TREATED	29-Apr	-	3.21		3.95			
FILTERED	ONLY	29-Apr	WESTON	5.18		5.67			
FILTERED	ONLY	29-Apr	WESTON	3.75		5.36			
FILTERED	ONLY	29-Apr	WESTON	3.02		5.71			
	TREATED	29-Apr	WESTON	4.19		4.25			
	TREATED	29-Apr	WESTON	2.33		4.32			
	TREATED	29-Apr	WESTON	2.54		3.24			
NOT	TREATED	30-Apr	WESTON	6.51		4.95			
FILTERED	ONLY	30-Apr	WESTON	4.82		4.48			
FILTERED	ONLY	30-Apr	WESTON	5.73		5.78			
FILTERED	ONLY	30-Apr	WESTON	6.55		4.76			
	TREATED	30-Apr	WESTON	4.15		4.53			
	TREATED	30-Apr	WESTON	3.12		4.35			
	TREATED	30-Apr	WESTON	3.34		5.58			
		•							
POND A-4		DATE		ALPHA TOT	ALPHA DIS	BETA TOT	BETA DIS	TSS	pН
NOT	TREATED	1-May	WESTON					υ	
FILTERED	ONLY	1-May	WESTON					U	
FILTERED	ONLY	1-May	WESTON					U	
	TREATED	1-May	WESTON					U	
	TREATED	1-May	WESTON	3.545		3.082		U	
NOT	TREATED	2-May	WESTON					U	
FILTERED		2-May	WESTON					Ū	-
FILTERED		2-May	WESTON					Ū	
	TREATED	2-May	WESTON		•			Ū	
	TREATED	2-May	WESTON					Ū	
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NOT TE	REATED	3-May	WESTON	4.021	6.421	4.758	3.314	U	
FILTERED	ONLY	3-May	WESTON	2.846	6.555	4.525	4.307	5	
FILTERED	ONLY	3-Мау	WESTON	2.557	5.534	6.009	4.252	7	
TF	REATED	3-May	WESTON	3.666	6.811	4.28	4.399	U	
TF	REATED	3-May	WESTON	4.141	4.527	4.95	4.813	U	
TF	REATED	3-May	WESTON	3.31	5.147	4.136	5.084	U	
NOT T	REATED	4-May	WESTON	6.379		4.589		U	
FILTERED	ONLY	4-May	WESTON	5.651		4.688		U	
FILTERED	ONLY	4-May	WESTON	3.315		5.85		U	
TI	REATED	4-May	WESTON	3.787		4.39		21.5	
TF	REATED	4-May	WESTON	4.727		4.538		U	
NOT T	REATED	5-May	WESTON	4.145		5.606		5	
FILTERED	ONLY	5-May	WESTON .	3.759		5.327		U	
FILTERED	ONLY	5-May	WESTON	3.45		4.885		U	
TI	REATED	5-May	WESTON	2.45		3.687		υ	
TI	REATED	5-May	WESTON	5.916		4.777		U	
NOT TI	REATED	6-May	WESTON	6.166		5.662		U	
	ONLY	6-May	WESTON	3.615		3.944		U	
	ONLY	6-May	WESTON	5.624		5.571		U	
	REATED	6-May	WESTON	5.425		4.346		U	
	REATED	6-May	WESTON	3.818		3.946		U	
	REATED	7-May	WESTON	4.494		4.817		U	
	ONLY	7-May	WESTON	4.535		4.47		U	
	ONLY	7-May	WESTON	5.248		6.057		6	
	REATED	7-May	WESTON	5.825		4.445		U	
	REATED	7-May	WESTON	4.171		4.34		Ū	
	REATED	8-May	WESTON	4.653		5.744		6	
	ONLY	8-May	WESTON	5.004		6.211		6	
	ONLY	8-May	WESTON	3.887		5.236		6	
	REATED	8-May	WESTON	4.095		4.574		Ü	
	REATED	8-May	WESTON	6.295		5.446		U .	
	REATED	9-May	WESTON	5.863		4.592		U	
	ONLY	9-May	WESTON	4.583		5.356		10	
	REATED	9-May	WESTON	4.363		5.34		U	
	REATED	-		4.37 4.951	4.375	5.34 5.877	4.054	U	
		10-May	WESTON		4.375 7.725	6.106	5.539		
	ONLY	10-May	WESTON	4.018			_	U	7.5
	REATED	=	WESTON	3.875	3.058	5.15	5.156	U	7.5
	REATED	11-May	WESTON	3.551		5.516		5	1
	ONLY	11-May	WESTON	5.19		5.745		6	
11	REATED	11-May	WESTON	2.651		5.399		U	

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NOT	TREATED	12-May	WESTON	4.911	4.843		
FILTERED	ONLY	12-May	WESTON	4.853	4.631		
•	TREATED	12-May	WESTON	4.032	5.042	•	•
NOT .	TREATED	13-May	WESTON	2.726	5.892	U	·
ILTERED	ONLY	13-May	WESTON	2.862	3.995	U	
K	TREATED	13-May	WESTON	1.2	4.444	U	
NOT	TREATED	14-May	WESTON	4.898	4.217	υ	
ILTERED	ONLY	14-May	WESTON	2.153	5.323	6	•
	TREATED	14-May	WESTON	1.883	2.965	U	

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POND B-5 INORGANIC DATA

	Α	В	С	D	E	F	G	Н	1	J
1	POND B-5		DATE			ALPHA TOT	ALPHA DIS	BETA TOT	BETA DIS	TSS
2	NOT	TREATED	1-May		WESTON					23.5
3	NOT	TREATED	1-May	DUP	WESTON					20
4	1	TREATED	1-May		RIEDEL	22		6		
5	TON	TREATED	2-May		WESTON					26.5
6	NOT	TREATED	2-May	DUP	WESTON	2.496		6.783		36
7	FILTERED	ONLY	2-May		WESTON					12
8		TREATED	2-May		WESTON					6.5
9		TREATED	2-May		RIEDEL	1		7		
10	NOT	TREATED	3-May		WESTON	4.23	4.152	6.242	7.327	23
11	NOT	TREATED	3-May	DUP	WESTON	4.063	4.471	6.627	5.827	25
1 2	FILTERED	ONLY	3-May		WESTON	2.065	5.947	6.06	6.839	1.1
13		TREATED	3-May		WESTON	6.116	3.156	6.592	6.497	U
14		TREATED	3-May		RIEDEL	1		7		
15	NOT	TREATED	4-May		WESTON	2.406		7.577		25
16	NOT	TREATED	4-May	DUP	WESTON	5.707		7.347		12.5
17	FILTERED	ONLY	4-May		WESTON	5.596		5.972		19.5
18		TREATED	4-May		WESTON	4.581		6.47		U
19	NOT	TREATED	5-May		WESTON	3.786		9.5		18.5
20	NOT	TREATED	5-May	DUP	WESTON					17
21	NOT	TREATED	5-May	PREP	WESTON					U
22	FILTERED	ONLY	5-May		WESTON	6.682		8.577		33.5
23		TREATED	5-May		WESTON	2.954		7.981		8.5
24	NOT	TREATED	6-May		WESTON	3.051		8.407		45
25	NOT	TREATED	6-May	DUP	WESTON	1.811		6.875		42
26	FILTERED	ONLY	6-May		WESTON	4.854		6.671		14
27		TREATED	6-May		WESTON	3.076		8.703		U
28	NOT	TREATED	7-May		WESTON	5.934		8.18		26
29	NOT	TREATED	7-May	DUP	WESTON	3.378		8.795		27
30	FILTERED	ONLY	7-May		WESTON	3.401		8.593		15
31		TREATED	7-May		WESTON	1.962		7.627		20
3 2	TON	TREATED	8-May		WESTON	5.759		7.842		16
33	NOT	TREATED	8-May	DUP	WESTON	3.951		9.322		15
3 4	FILTERED	ONLY	8-May		WESTON	5.053		30		9
35		TREATED	8-May	_	WESTON	1.344		19.98		.U
36	NOT	TREATED	9-May		WESTON	5.408		7.734		16
37	NOT	TREATED	9-May	DUP	WESTON	4.844		8.72		16
38	FILTERED	ONLY	9-May		WESTON	4.873		13.87		12
39		TREATED	9-May		WESTON	2.195		11.05		١U
40	NOT	TREATED	10-May		WESTON	6.256	2.484	7.144	8.209	33.5
41	NOT	TREATED	10-May	DUP	WESTON	5.079	4.251	7.929	9.048	27
42	FILTERED	ONLY	10-May		WESTON	2.937	3.199	6.904	8.549	13.5
43		TREATED	10-May		WESTON	2.775	3.131	7.568	9.077	U
44	NOT	TREATED	11-May		WESTON	3.145		8.561		10
45	NOT	TREATED	11-May	DUP	WESTON	2.907		8.137		11
46	FILTERED	ONLY	11-May		WESTON	3.686		7.985		8
47		TREATED	11-May		WESTON	1.767		6.645		U

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48	NOT	TREATED	12-May		WESTON	3.264		8.537		
49	NOT	TREATED	12-May	DUP	WESTON	1.806		6.87		
50	FILTERED	ONLY	12-May		WESTON	6.075		8.133		
51	1	TREATED	12-May		WESTON	4.068		8.471		
5 2	\ NOT	TREATED	13-May		WESTON	4.003		8.474		8
53	NOT	TREATED	13-May	DUP	WESTON	2.527		8.231		9
5 4	FILTERED	ONLY	13-May		WESTON	3.19		8.671		7
5 5		TREATED	13-May		WESTON	2.146		8.508		<u>'5</u>
56	NOT	TREATED	14-May		WESTON	6.366		8.037		-25
57	NOT	TREATED	14-May	DUP	WESTON	3.702		7.059		24
58										
59										
60	POND B-5		DATE			ALPHA TOT	ALPHA DIS	BETA TOT	BETA DIS	TSS
61	NOT	TREATED	1-Apr		WESTON	2.243		4.99		10
62		TREATED	1-Apr		WESTON	2.583		3.706		7
63		TREATED	1-Apr		REIDEL	4.1		8.4		
64		TREATED	1-Apr	J	RFP	U		U		
65	NOT	TREATED	2-Apr		WESTON	3.294		6.341		12
66	NOT	TREATED	2-Apr		RFP	U		U		
67		TREATED	2-Apr		WESTON	3.862		5.536		9
68		TREATED	2-Apr		REIDEL	5.1		6.6		
69		TREATED	2-Apr		RFP	18		U		
70	NOT	TREATED	3-Apr		WESTON	3.682		5.445		8.5
71		TREATED	3-Apr		WESTON	4.855		5.456		<u> </u>
72		TREATED	3-Apr	<u></u>	REIDEL	11		4.5		ş I
73		TREATED	3-Apr		RFP	U		U		
74	NOT	TREATED	4-Apr		WESTON	3.72		6.927		15
75	NOT	TREATED	4-Apr	DUP	WESTON	5.221		9.345		14
76		TREATED	4-Apr		WESTON	5.463		4.98		14
77		TREATED	4-Apr		REIDEL	6.8		10.7		
78		TREATED	4-Apr		RFP	U		U		
79	NOT	TREATED	5-Apr		WESTON	5.848	9.386	3.583	4.66	12
80	FILTERED	ONLY	5-Apr		WESTON	5.043		5.981		19
81		TREATED	5-Apr		WESTON	5.297	17.78	3.98	7.35	5.5
82		TREATED	5-Apr		REIDEL	2.2		11		
83		TREATED	5-Apr		RFP	U		U		,
84	NOT	TREATED	6-Apr		WESTON	6.689	7.655	5.206	6.867	20
85		TREATED	6-Apr		WESTON	6.697	7.691	5.376	7.371	20
86		TREATED	6-Apr		REIDEL	7.5		10.1		
87	NOT	TREATED	7-Apr		WESTON	10.2		6.364		23
88	FILTERED	ONLY	7-Apr		WESTON	5.39		5.614		18
89		TREATED	7-Apr		WESTON	5.347		5.751		19
90		TREATED	7-Apr		REIDEL	3.6	······	7.1	ļ	
91		TREATED	7-Apr		RFP	31		29		
92	NOT	TREATED	8-Apr		WESTON	7.173		5.667		14.5
93	FILTERED	ONLY	8-Apr		WESTON	4.327		6.288	- <u>-</u>	7
9 4	[TREATED	8-Apr		WESTON	5.645	<u>.</u>	4.797		U

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95		TREATED	8-Apr		REIDEL	1.3		4.7		
96		TREATED	8-Apr		RFP	25		27		
97	. NOT	TREATED	9-Apr		WESTON	5.278		6.313		20
98	NOT	TREATED	9-Apr		RFP	U		U		
99	PILTERED	ONLY	9-Apr		WESTON	7.418		4.843		22
100		TREATED	9-Apr		WESTON	6.927		5.524		7
101		TREATED	9-Apr		REIDEL	1		3.8		
102		TREATED	9-Apr		RFP	U		U		
103	NOT	TREATED	10-Apr		WESTON					15
104	FILTERED	ONLY	10-Apr		WESTON				· 	21
105		TREATED	10-Apr		WESTON					5
106		TREATED	10-Apr		REIDEL	2.4		9.8		
107		TREATED	10-Apr		RFP	U		U		
108	NOT	TREATED	11-Apr		WESTON					11
109	FILTERED	ONLY	11-Apr		WESTON					7.5
110		TREATED	11-Apr		WESTON					U
111		TREATED	11-Apr		REIDEL	3.7		5.8		
112	NOT	TREATED	12-Apr		WESTON	7.54	6.082	5.581	4.295	43
113	FILTERED	ONLY	12-Apr		WESTON	7.762		4.567		15
114		TREATED	12-Apr		WESTON	4.562	7.705	4.856	4.283	8
115		TREATED	12-Apr		REIDEL	1		4.8		
116		TREATED	12-Apr		RFP	-1		2		
117	NOT	TREATED	13-Apr		WESTON	5.683		5.925		8
118	FILTERED	ONLY	13-Apr		WESTON	5.398		5.764		14
119		TREATED	13-Apr		WESTON	4.304		4.998		6
120		TREATED	13-Apr		REIDEL	8.7		8.1		
121		TREATED	13-Apr		RFP	13		6		
122	NOT	TREATED	14-Apr		WESTON	3.952		7.748		· .
123	FILTERED	ONLY	14-Apr		WESTON	6.225		4.172		·
124		TREATED	14-Apr		WESTON	4.99		5.08		
125		TREATED	14-Apr		REIDEL	14.8		10.9		
126	NOT	TREATED	15-Apr		WESTON	······				
127		TREATED	15-Apr		WESTON					
128		TREATED	15-Apr		REIDEL	3.8		6.6		
129		TREATED	15-Apr		RFP	88		13		
130	NOT	TREATED	16-Apr		WESTON	5.691		6.646		11
131	NOT	TREATED	16-Apr		RFP	-1		13		
132	FILTERED	ONLY	16-Apr		WESTON	5.346		6.354		11
133		TREATED	16-Apr		WESTON	2.568		6.383		5.5
134		TREATED	16-Apr		REIDEL	3.7		5.8	,	
135		TREATED	16-Apr		RFP	4		13		
136	NOT	TREATED	17-Apr		WESTON	3.512		6.608		14.5
137	FILTERED	ONLY	17-Apr		WESTON	6.07		5.412		16.5
138		TREATED	17-Apr		WESTON	3.556		4.933		6.5
139		TREATED	17-Apr		REIDEL	1.8		3.9		
140	NOT	TREATED	18-Apr		WESTON	5.225		7.37		16
141	FILTERED	ONLY	18-Apr		WESTON	8.651		8.463		11

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142		TREATED	18-Apr		WESTON	6.565		6.626		5
143		TREATED	18-Apr		RIEDEL	1.1		7.8		
144	· NOT	TREATED	19-Apr		WESTON	4.593	7.248	7.834	6.661	10
145	NOT	TREATED	19-Apr	DUP	WESTON	5.337	4.393	6.321	6.774	16.5
146	FILTERED	ONLY	19-Apr		WESTON	2.153		7.097		11.5
147		TREATED	19-Apr		WESTON	4.552	7.841	5.588	6.227	U
148	-	TREATED	19-Apr		RIEDEL	<1		5.6		
149	NOT	TREATED	20-Apr		WESTON	6.85		6.162		12.5
150	FILTERED	ONLY	20-Apr		WESTON	5.513		6.533		21
151		TREATED	20-Apr		WESTON	3.039		7.57		U
152		TREATED	20-Apr		RIEDEL	2.7		5.2		
153	NOT	TREATED	21-Apr		WESTON	4.648		7.501		14.5
154	FILTERED	ONLY	21-Apr		WESTON	3.789		6.144		6
155		TREATED	21-Apr		WESTON	3.44		6.185		Ų
156		TREATED	21-Apr		RIEDEL	2.6		10		
157	NOT	TREATED	22-Apr		WESTON	5.438		7.559		34
158	FILTERED	ONLY	22-Apr		WESTON	4.809		6.151		U
159		TREATED	22-Apr		WESTON	7.232		3.772		U
160	NOT	TREATED	23-Apr		WESTON	8.177		6.539		42.5
161	FILTERED	ONLY	23-Apr		WESTON	9.762		4.724		U
162		TREATED	23-Apr		WESTON	6.568		6.42		U
163	NOT	TREATED	24-Apr		WESTON	6.692		7.813		19.5
	FILTERED	ONLY	24-Apr		WESTON	5.889		5.592		27
165		TREATED	24-Apr		WESTON	9.576		5.523		U
166	NOT	TREATED	25-Apr		WESTON	5.846		7.942		39
167	FILTERED	ONLY	25-Apr		WESTON	5.006		7.197		34.5
168		TREATED	25-Apr		WESTON	2.38		6.96		25
169	NOT	TREATED	26-Apr		WESTON	5.163	5.41	8.378	8.048	22.5
170	NOT	TREATED	26-Apr	DUP	WESTON	5.398	3.694	6.554	6.909	24.5
171	FILTERED	ONLY	26-Apr		WESTON	3.264	4.035	7.089	7.123	19
172		TREATED	26-Apr		WESTON	4.486	2.628	7.621	6.737	10
173	NOT	TREATED	27-Apr		WESTON	3.491		8.382		62
174	NOT	TREATED	28-Apr		WESTON	3.22		8.902	,	48
175	NOT	TREATED	28-Apr	DUP	WESTON	8.717		14.04	,	92.5
	FILTERED	ONLY	28-Apr		WESTON	6.15		8.3		41.5
177		TREATED	28-Apr		WESTON	3.369		7.167		10
178	NOT	TREATED	29-Apr		WESTON	4.674		8.179		
179	NOT	TREATED	29-Apr	DUP	WESTON	4.505		7.714		
180	FILTERED	ONLY	29-Apr		WESTON	3.318		8.414		1
181		TREATED	29-Apr		WESTON	5.173		7.736		
182	NOT	TREATED	30-Apr		WESTON	6.669		7.319		
183	NOT	TREATED	30-Apr	DUP	WESTON	3.492		7.714		
184	FILTERED	ONLY	30-Apr		WESTON	6.268		6.672		
185		TREATED	30-Apr		WESTON	2.44		7.876		

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171	7.9
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177	8.1
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POND C-2 INORGANIC DATA

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1	POND C-2		DATE			ALPHA TOT	ALPHA DIS	BETA TOT	BETA DIS	TSS
2	NOT	TREATED	1-May		WESTON					12
3	FILTERED	ONLY	1-May		WESTON					7.5
4	}	TREATED	1-May		WESTON	3.26		6.43		U
5		TREATED	1-May	DUP	WESTON	3.25		6.36		
6	PIPE	DISCHARGE	1-May		WESTON					U
7	· NOT	TREATED	2-May		WESTON					U
8	FILTERED	ONLY	2-May		WESTON	4.76		6.36		12.5
9		TREATED	2-May		WESTON			!		16.5
10	PIPE	DISCHARGE	2-May		WESTON	2.59		6.69		U
11	NOT	TREATED	3-May		WESTON	7.84	4.08	6.57	5.20	17
12	FILTERED	ONLY	3-May		WESTON	2.47	6.29	5.20	6.03	6
13		TREATED	3-May		WESTON	3.35	4.08	5.98	6.23	Ū
14	PIPE	DISCHARGE	3-May		WESTON	3.42	4.24	6.70	5.21	U
15	NOT	TREATED	4-May		WESTON	4.45		7.14		17.5
16	FILTERED	ONLY	4-May		WESTON	5.18		7.54		16.5
17	-	TREATED	4-May		WESTON	5.05		5.82		U
18	PIPE	DISCHARGE	4-May		WESTON	4.63		6.63		5.5
19	NOT	TREATED	5-May		WESTON	4.27		7.00		15.5
20	FILTERED	ONLY	5-May		WESTON	5.97		5.63		8
21		TREATED	5-May		WESTON	3.69		7.46		6
22	PIPE	DISCHARGE	5-May		WESTON	3.32		5.34		, U
23	NOT	TREATED	6-May		WESTON	6.98		6.61		17
24	FILTERED	ONLY	6-May		WESTON	6.60		7.86		9
25		TREATED	6-May		WESTON	5.12		6.37		U
26	PIPE	DISCHARGE	6-May		WESTON	5.72	701.14	6.85		· U
27	NOT	TREATED	7-May		WESTON	4.76		6.35	******	19
28	FILTERED	ONLY	7-May		WESTON	4.31		7.79		22
29		TREATED	7-May		WESTON	3.48		7.62		U
30	PIPE	DISCHARGE	7-May		WESTON	2.48		6.93		7
31	NOT	TREATED	8-May		WESTON	4.96		17.35		19
32	FILTERED	ONLY	8-May		WESTON	3.57		8.01		20
33		TREATED	8-May		WESTON	2.78		5.38		11
3 4	PIPE	DISCHARGE	8-May		WESTON	5.63		6.68		5
3 5	NOT	TREATED	9-May		WESTON	8.59		14.17		28
36	FILTERED	ONLY	9-May		WESTON	5.96		7.19		21
37		TREATED	9-May		WESTON	7.86		13.12		6
38	PIPE	DISCHARGE	9-May		WESTON	4.83		5.45		5
39	NOT	TREATED	10-May		WESTON	7.18	7.33	5.93	6.49	33
40	FILTERED	ONLY	10-May		WESTON	5.86	6.07	6.85	5.55	21.5
41		TREATED	10-May		WESTON	4.18	6.86	6.00	6.46	10
42	PIPE	DISCHARGE	10-May		WESTON	4.71	4.94	5.12	5.43	U
43	NOT	TREATED	11-May		WESTON	5.889		8.445		28
44	FILTERED	ONLY	11-May		WESTON	2.887		6.522		26
45		TREATED	11-May		WESTON	3.165		6.749		9
46	PIPE	DISCHARGE	11-May		WESTON	2.627		7.13		5
47	NOT	TREATED	`12-May		WESTON	7.416		8.124		

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48	FILTERED	ONLY	12-May		WESTON	7.66		7.064		
49		TREATED	12-May		WESTON	4.124		5.604		
50	PIPE	DISCHARGE	12-May		WESTON	3.291		6.511		
51	, NOT	TREATED	13-May		WESTON	4.822		7.569		30
5 2	FILTERED	ONLY	13-May		WESTON	3.662		6.459		30
53		TREATED	13-May		WESTON	2.767		4.512		15
54	PIPE	DISCHARGE	13-May		WESTON	2.712		6.244		8
5 5	NOT	TREATED	14-May		WESTON	4.979		6.515		26
56	FILTERED	ONLY	14-May		WESTON	7.639		7.006		32
57		TREATED	14-May	<u> </u>	WESTON	1.458		5.097		20
58	PIPE	DISCHARGE	14-May	<u> </u>	WESTON	2.324		6.375		10
59										, ·
60										
61										<u> </u>
62	POND C-2		DATE			ALPHA TOT	ALPHA DIS	BETA TOT	BETA DIS	TSS
63	NOT	TREATED	16-Jan		RFP	U		U	· · · · · · · · · · · · · · · · · · ·	
64	NOT	TREATED	26-Jan		RFP	U		υ		
65	NOT	TREATED	12-Feb		RFP	18.00	· · · · · · · · · · · · · · · · · · ·	21.00		
66		TREATED	12-Feb		RFP	3.00		11.00		ļ
67	NOT	TREATED	5-Mar		RFP	3.00		10.00		
68	NOT	TREATED	5-Mar		RFP	U		U		
69	NOT	TREATED	23-Mar		WESTON	9.00		11.50		
70	NOT	TREATED	23-Mar		RFP	U		23.00		
71	NOT	TREATED	29-Mar		WESTON		2.70		6.00	U
72		TREATED	29-Mar		WESTON		1.80		8.40	U
73		TREATED	29-Mar		RIEDEL	1.80		10.60		
74	NOT	TREATED	30-Mar		WESTON		3.20		5.60	U
75		TREATED	30-Mar	ļ	WESTON		2.30		7.90	U
76		TREATED	30-Mar		RIEDEL	4.30		6.60		:
77	NOT	TREATED	31-Mar		WESTON		2.40		8.80	5.50
78		TREATED	31-Mar		WESTON		4.50		2.60	U
79		TREATED	31-Mar		RIEDEL	2.50		8.70		
80	NOT	TREATED	1-Apr		WESTON	3.36		7.44		10.00
81		TREATED	1-Apr		WESTON	U		5.89		5.00
82		TREATED	1-Apr		RIEDEL	4.00		8.30		
83	NOT	TREATED	2-Apr		WESTON	2.89		6.39		10.00
84	NOT	TREATED	2-Apr	DUP	WESTON	5.00		7.22		10.00
85		TREATED	2-Apr		WESTON	4.30		6.68		U
86		TREATED	2-Apr		RIEDEL	2.20		6.00		
87	NOT	TREATED	3-Apr	<u> </u>	WESTON	U		6.99		5.50
88		TREATED	3-Apr	<u> </u>	WESTON	2.74		6.88		U
89		TREATED	3-Apr		RIEDEL	2.40		6.50		
90	NOT	TREATED	4-Apr		WESTON	2.73		8.36		14.00
91		TREATED	4-Apr		WESTON	6.35		6.17		U
92		TREATED	4-Apr		RIEDEL	3.90		7.60		
93	NOT	TREATED	5-Apr		WESTON	6.64	9.04	7.69	3.52	9.00
94	NOT	TREATED	5-Apr	DUP	WESTON	5.05	6.65	7.12	7.28	9.00

	Α	В	С	D	Е	F	G	Н	1	J
95	FILTERED	ONLY	5-Apr		WESTON	6.09		7.29		19.00
96		TREATED	5-Apr		WESTON	5.65	5.01	7.91	7.19	6.00
97		TREATED	5-Apr		RIEDEL	3.20		8.80		
98	NOT	TREATED	6-Apr		WESTON					U
99	FILTERED	ONLY	6-Apr		WESTON					16.00
100		TREATED	6-Apr		WESTON					U
101		TREATED	6-Apr		RIEDEL	3.90		10.10		
102	NOT	TREATED	7-Apr		WESTON	8.05		6.43		10.00
103	FILTERED	ONLY	7-Apr		WESTON	7.72		6.62		U
104		TREATED	7-Apr		WESTON	4.94		8.38		U
105	 	TREATED	7-Apr		RIEDEL	5.10		7.70		
106		TREATED	8-Apr		WESTON	7.10		6.84		7.50
107	FILTERED	ONLY	8-Apr		WESTON	3.83		5.21		8.00
108		TREATED	8-Apr		WESTON	7.49		5.98		U
109		TREATED	8-Apr		RIEDEL	2.90		2.40		
110		TREATED	9-Apr		WESTON	5.69		7.33		13.00
111	FILTERED	ONLY	9-Apr		WESTON	4.75		5.96		7.00
112		TREATED	9-Apr		WESTON	5.85		4.82		U
113		TREATED	9-Apr		RIEDEL	5.50		10.60		
114	NOT	TREATED	10-Apr		WESTON					6.50
115	FILTERED	ONLY	10-Apr		WESTON					8.50
116		TREATED	10-Apr		WESTON					11.00
117		TREATED	10-Apr		RIEDEL	6.60		3.80		
118	NOT	TREATED	11-Apr		WESTON					9.50
119	NOT	TREATED	12-Apr		WESTON	6.92	9.45	5.54	5.73	15.00
120	NOT	TREATED	13-Apr		WESTON	2.80		8.91		10.00
121	NOT	TREATED	14-Apr		WESTON	2.57		7.25		
122	NOT	TREATED	14-Apr		RFP	4.00		4.00		1
123	NOT	TREATED	15-Apr		RFP	0.00		10.00		
124		TREATED	15-Apr		RIEDEL	2.20		4.60		
125		TREATED	15-Apr		RFP	12.00		10.00		
126	PIPE	DISCHARGE	15-Apr		WESTON					5.50
127	NOT	TREATED	16-Apr		WESTON	U		7.62		13.00
128	FILTERED	ONLY	16-Apr		WESTON	3.35		7.10		8.00
129		TREATED	16-Apr		WESTON	4.58		6.94		5.00
130		TREATED	16-Apr		RIEDEL	2.20		4.10		
131		TREATED	16-Apr		RFP	7.00		-1.00		
132	PIPE	DISCHARGE	16-Apr		WESTON	4.11		6.63		6.00
133	NOT	TREATED	17-Apr		WESTON	U		6.43		12.50
134	FILTERED	ONLY	17-Apr		WESTON	5.72		7.24		8.00
135		TREATED	17-Apr		WESTON	3.94		7.21		U
136		TREATED	17-Apr	<u> </u>	RIEDEL	1.00	***	3.90		
137	PIPE	DISCHARGE	17-Apr		WESTON					8.00
138	NOT	TREATED	18-Apr		WESTON	6.46		8.44		16.00
139	NOT	TREATED	18-Apr	DUP	WESTON	3.02		8.08		15.50
140	FILTERED	ONLY	18-Apr		WESTON	3.36		7.17	***	9.00
141		TREATED	18-Apr		WESTON	2.46		7.63		U

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142		TREATED	18-Apr		RIEDEL	1.10		7.60		
143	PIPE	DISCHARGE	18-Apr		WESTON					7.50
144	. NOT	TREATED	19-Apr		WESTON	5.64	6.68	7.83	7.72	12.50
145	FILTERED	ONLY	19-Apr		WESTON					7.50
146		TREATED	19-Apr		WESTON	3.98	2.45	8.67	6.25	6.50
147		TREATED	19-Apr		RIEDEL	3.60		5.80		
148	PIPE	DISCHARGE	19-Apr	Α	WESTON	4.57		6.84		Į, U
149	PIPE	DISCHARGE	19-Apr	В	WESTON	4.18		6.56		<u> </u>
150	NOT	TREATED	20-Apr		WESTON	5.19		8.70	_	7.50
151	NOT	TREATED	20-Apr	DUP	WESTON	3.32		6.11		11.50
152	FILTERED	ONLY	20-Apr		WESTON	6.21		7.80		13.50
153		TREATED	20-Apr		WESTON	3.60		8.24		U
154		TREATED	20-Apr		RIEDEL	1.90		7.30		
155	PIPE	DISCHARGE	20-Apr		WESTON	4.55		6.91	_	5.00
156	NOT	TREATED	21-Apr		WESTON	2.60		5.84		6.00
157	FILTERED	ONLY	21-Apr		WESTON	2.58		6.67		6.50
158		TREATED	21-Apr		WESTON	2.32		6.92		U
159		TREATED	21-Apr		RIEDEL	1.50		8.70		1
160	PIPE	DISCHARGE	21-Apr		WESTON	2.26	5.92	7.34	5.46	7.50
161	NOT	TREATED	22-Apr		WESTON	5.29		6.81		8.50
162	FILTERED	ONLY	22-Apr		WESTON	5.94		6.82		U
163		TREATED	22-Apr		WESTON	4.62		6.14		U
164	PIPE	DISCHARGE	22-Apr		WESTON	5.84		5.35		U
165	NOT	TREATED	23-Apr		WESTON	6.91		6.42		12.50
166	FILTERED	ONLY	23-Apr		WESTON	6.48		6.68		6.50
167		TREATED	23-Apr		WESTON	4.50		7.39		U
168	PIPE	DISCHARGE	23-Apr		WESTON	8.00		7.12		U
169	NOT	TREATED	24-Apr		WESTON	5.76		7.78		7.00
170		FILTERED	24-Apr		WESTON	6.17		6.25		5.50
171		TREATED	24-Apr		WESTON	5.26		5.97		U
172	PIPE	DISCHARGE	24-Apr		WESTON	4.26		5.71		U
173	NOT	TREATED	25-Apr		WESTON	4.14		10.18		15.00
174		FILTERED	25-Apr		WESTON	4.36		8.19		10.00
175		TREATED	25-Apr		WESTON	2.66		6.64		U
176	PIPE	DISCHARGE	25-Apr		WESTON	3.52		6.18		6.50
177	NOT	TREATED	26-Apr		WESTON	5.97	5.18	5.65	7.03	11.50
178	FILTERED	ONLY	26-Apr		WESTON					6.00
179		TREATED	26-Apr		WESTON	5.37	5.02	6.99	5.77	'U
180	PIPE	DISCHARGE	26-Apr		WESTON	3.43	5.46	6.41	7.92	U
181	NOT	TREATED	27-Apr		WESTON	5.43		8.41		12.00
182	NOT	TREATED	27-Apr	DUP	WESTON					9.50
183	FILTERED	ONLY	27-Apr		WESTON	5.44		7.66		U
184		TREATED	27-Apr		WESTON	3.22		5.13		U
185	PIPE	DISCHARGE	27-Apr		WESTON	3.32		6.43		U
186	NOT	TREATED	28-Apr		WESTON	6.19		8.78		39.00
187	FILTERED	ONLY	28-Apr		WESTON	5.58		7.80		8.00
188		TREATED	28-Apr		WESTON	4.54		7.35		U

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189	PIPE	DISCHARGE	28-Apr		WESTON	5.12		6.73		U
190	NOT	TREATED	29-Apr		WESTON	3.57		7.63		
191	FILTERED	ONLY	29-Apr		WESTON	3.54		6.74		1
192	1	TREATED	29-Apr		WESTON	3.36		6.03		
193	PIPE	DISCHARGE	29-Apr		WESTON	3.70		6.06		
194	NOT	TREATED	30-Apr		WESTON	3.82		6.77		
195	FILTERED	ONLY	30-Apr		WESTON	7.19		6.50		T
196		TREATED	30-Apr		WESTON	3.26		6.54		
197	PIPE	DISCHARGE	30-Apr		WESTON	2.32		7.69		

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